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BINGHAMTON, NEW YORK

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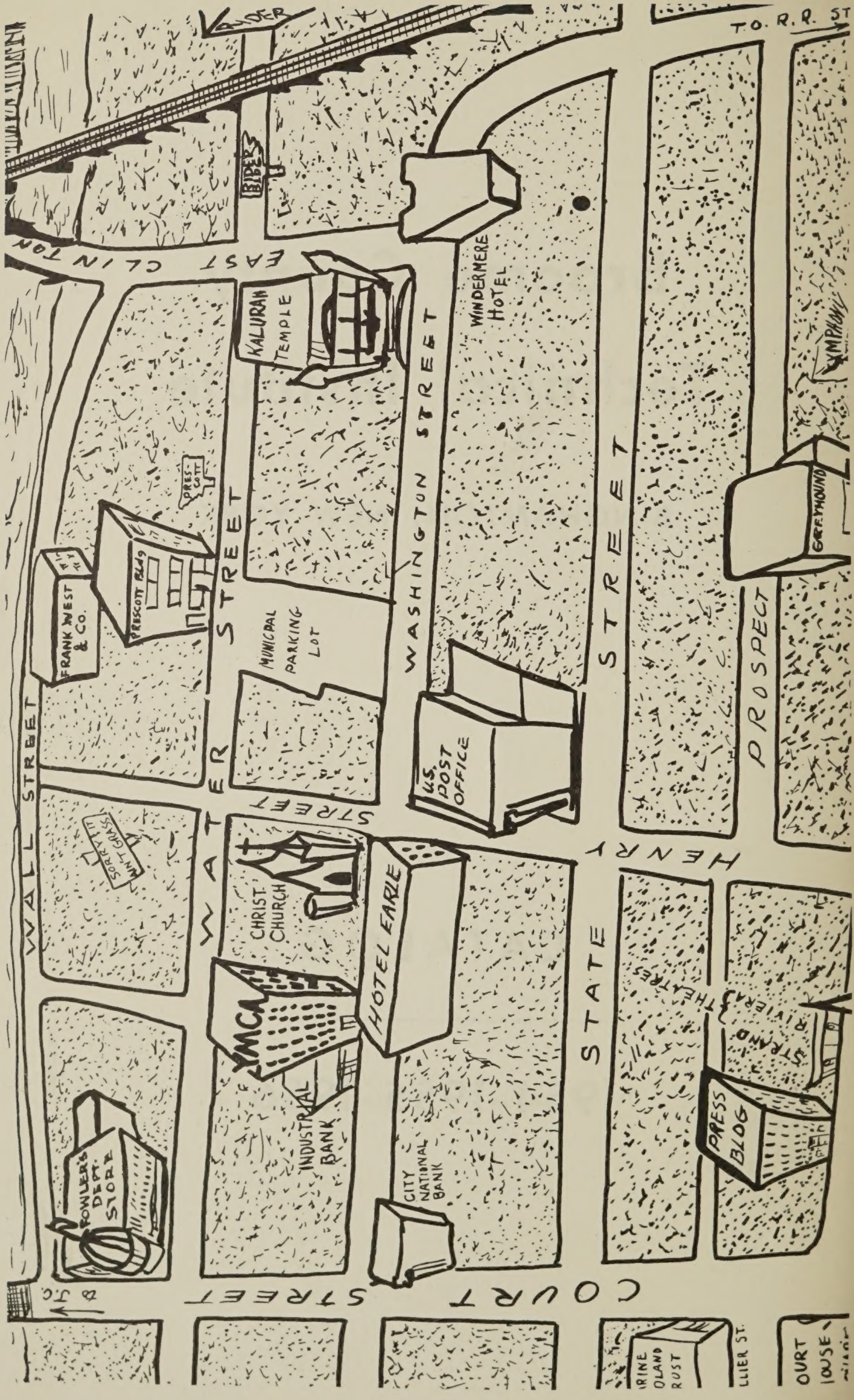
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WHO WE ARE

STATE UNIVERSITY OF NEW YORK

William S. Carlson	President
Lawrence L. Jarvie	Executive Dean for Institutes and Community Colleges
Francis E. Almstead	Ass't to Executive Dean for Institutes and Community Colleges

Broome County Technical Institute is a community college supervised by the State University of New York

BROOME COUNTY TECHNICAL INSTITUTE

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C. C. Tyrrell	President *Purdue University*
James E. McVean	Director of Admissions and Extension *Canton Agricultural and Technical Institute* *Clarkson College of Technology* *Cornell University*

FACULTY

AUTOMOTIVE AND MECHANICAL TECHNOLOGY

Fred Sanders ---------------------- Professor, Department Head
Pratt Institute
Robert F. Bieling -------------------------- Assistant Professor
New York State Maritime Academy, Syracuse University
Marion A. Forbes ------------------------- Associate Professor
University of State of New York, Teacher Training
Cornell University
Erwin C. Hamm --------------------------- Assistant Professor
Clarkson College of Technology
Michael J. Kapral ------------------------ Assistant Professor
University of State of New York, Teacher Training
Cortland State Teachers College
Douglas W. Rittenhouse ---------------- Assistant Instructor
Harvey N. Roehl ------------------------- Assistant Professor
Cornell University
Irvin C. Simser --------------------------- Associate Professor
Clarkson College of Technology

CHEMICAL TECHNOLOGY

John Kushner -------------------- Professor, Department Head
Colorado School of Mines, Cornell University
Darrell H. Badore ------------------------ Assistant Professor
Canton Agricultural and Technical Institute
Cornell University
Axford L. Beagle ------------------------- Assistant Professor
Canton Agricultural and Technical Institute
Clarkson College of Technology
Michael T. Orinik ------------------------ Associate Professor
Penn State, Cornell University

ELECTRICAL TECHNOLOGY

L. J. Sitterlee ---------------------- Professor, Department Head
Rochester Institute of Technology, Buffalo State
Teachers College, Clarkson College of Technology
Anthony J. Carolin ---------------------- Assistant Professor
Tri-State Engineering College, Syracuse University
William Dervay ------------------------------------ Instructor
Binghamton Institute of Applied Arts and Sciences

Donald W. Emmons ---------------------- Assistant Professor
Canton Agricultural and Technical Institute
Clarkson College of Technology, Oklahoma A. & M. College

K. K. French ---------------------------- Assistant Professor
Rochester Institute of Technology
University of Rochester

H. H. Gruber ---------------------------- Assistant Professor
Penn State

Reynold L. Stone ------------------------- Assistant Professor
Alfred Agricultural and Technical Institute
Carnegie Institute of Technology

OFFICE ASSISTANTS

Neva M. Ash -------------------- Professor, Department Head
New York University, St. Luke's Hospital, New York City

Margery E. Dozier -------------------------------- Instructor
Lenox Hill School of Nursing
Binghamton Institute of Applied Arts and Sciences

A. J. Kalbaugh ---------------------------- Associate Professor
Albany State Teachers College, University of Buffalo

Alice Marci ------------------------------------- Instructor
Keuka College, Syracuse University

Walter Tedick ---------------------------- Assistant Professor
University of Alabama, University of Pittsburgh

GENERAL EDUCATION

Richard Baldwin --------------------------- Assistant Professor
University of Rochester, St. Bonaventure University

Clyde E. Chauncey ---------------------- Associate Professor
Syracuse University, University of Rochester
Columbia University

George Elliott ---------------------------- Assistant Professor
Middlebury College, Columbia University

Roy Greenwood ---------------------------- Associate Professor
Allegheny College, Syracuse University
University of Rochester

Lloyd W. Hartman ---------------------- Associate Professor
Syracuse University, Cornell University

Tracy R. Cone ------------------------------- Finance Officer
Joan L. Foley ------------------------------------ Librarian
Clyde E. Chauncey ---------------------------- Dean of Men
Neva M. Ash ------------------------------- Dean of Women

THE TECHNICAL INSTITUTE

As a reader of this catalog, you are naturally interested in education beyond high school. You have probably been thinking of "college" or "university," words which have a clear meaning for you. However, the significance of the term "technical institute" may not be so clear and for a very good reason: it is new or relatively so. It is new because the institution it represents has had its most rapid development in the past 10 or 15 years. This development has been the result of the amazing advances of science and technology and of the demand of youth for more education after high school.

Technical institute curriculums, usually two years in length, are intended to prepare you to earn a living in an occupation in which success depends largely upon technical information and an understanding of the laws of science and technology as applied to modern design, production, distribution and service.

The institute is not a trade school nor a professional engineering college. It does not train craftsmen nor graduate engineers. It serves an area between the two and calls its graduates "technicians," who are equipped with a broader theoretical training than that of the craftsman and yet with more practical skill than that of the professional engineer.

For example, craftsmen make the parts and assemble an electric motor; technicians design and test it. Craftsmen fabricate structures; technicians draw the plans and compute the cost. Machinists produce a mechanism with close tolerances; technicians design the mechanism, write the specifications, make the blueprints, organize the production, and test the finished product. The technician may also be known as a junior engineer or engineering or research assistant.

The technical institute program is designed to prepare students for immediate employment after graduation. However, graduates in increasing numbers are continuing their study at four-year colleges to work for the bachelor's degree.

A BIT OF HISTORY

Every college has an interesting history. Not many in the span of seven years have had the dramatic and significant experiences of Broome Tech. First called the Institute of Applied Arts and Sciences, it was created by New York State in 1946 along with four other sister institutions located at Buffalo, New York City, Utica and White Plains. In 1948 it became a unit of the State University of New York with courses fully accredited by the State Department of Education and the Middle States Association of Colleges and Secondary Schools. The Institute was authorized to grant the degree, Associate in Applied Science.

For five years its home was in a converted State Armory situated in down-town Binghamton. Some of the finest college laboratories and shops in the State were developed here in this short period. Curriculum expansion led to the leasing of a second building. Graduates were filling responsible positions in business and industry and were building up a reputation for "State Tech."

Then came Labor Day 1951 and a fire which almost completely destroyed the Armory just two weeks before the scheduled opening of the fall term. Through the combined efforts of the staff, trustees, local agencies and the State University, the term opened only two weeks late with nearby Kalurah Temple replacing the Armory. More laboratory space was later made available through the acquisition of a third building. The task of equipment replacement began and is now 100% complete.

The next act in the drama occurred on September 1, 1953 when the Institute acquired a new name, the Broome County Technical Institute. Much more than a change in name was involved, however. The sponsorship passed from New York State to Broome County with administrative responsibility in the hands of a local Board of Trustees, five appointed by the County Board of Supervisors and four by Governor Dewey. The Institute continues under the supervision of the State University of New York.

The original idea of relieving the student of some of the financial burden of going to college was also continued. Under the "community college" plan, a moderate tuition is charged. A low tuition fee is made possible because of the joint contributions of the State, Broome County and the home counties of non-resident students.

The curtain is rising on the next act of the drama. Plans now in the development stage call for a change in setting, from temporary quarters to a new campus. Here a modern educational plant will be erected to better serve the needs of youth, business, industry and the professions.

WHERE WE ARE

Broome County, an agricultural and manufacturing area, is in the Southern Tier of New York State. Its industries are largely concentrated in the population centers of Binghamton, Johnson City, Endicott and Vestal, together forming a community well known for its economic stability and community spirit.

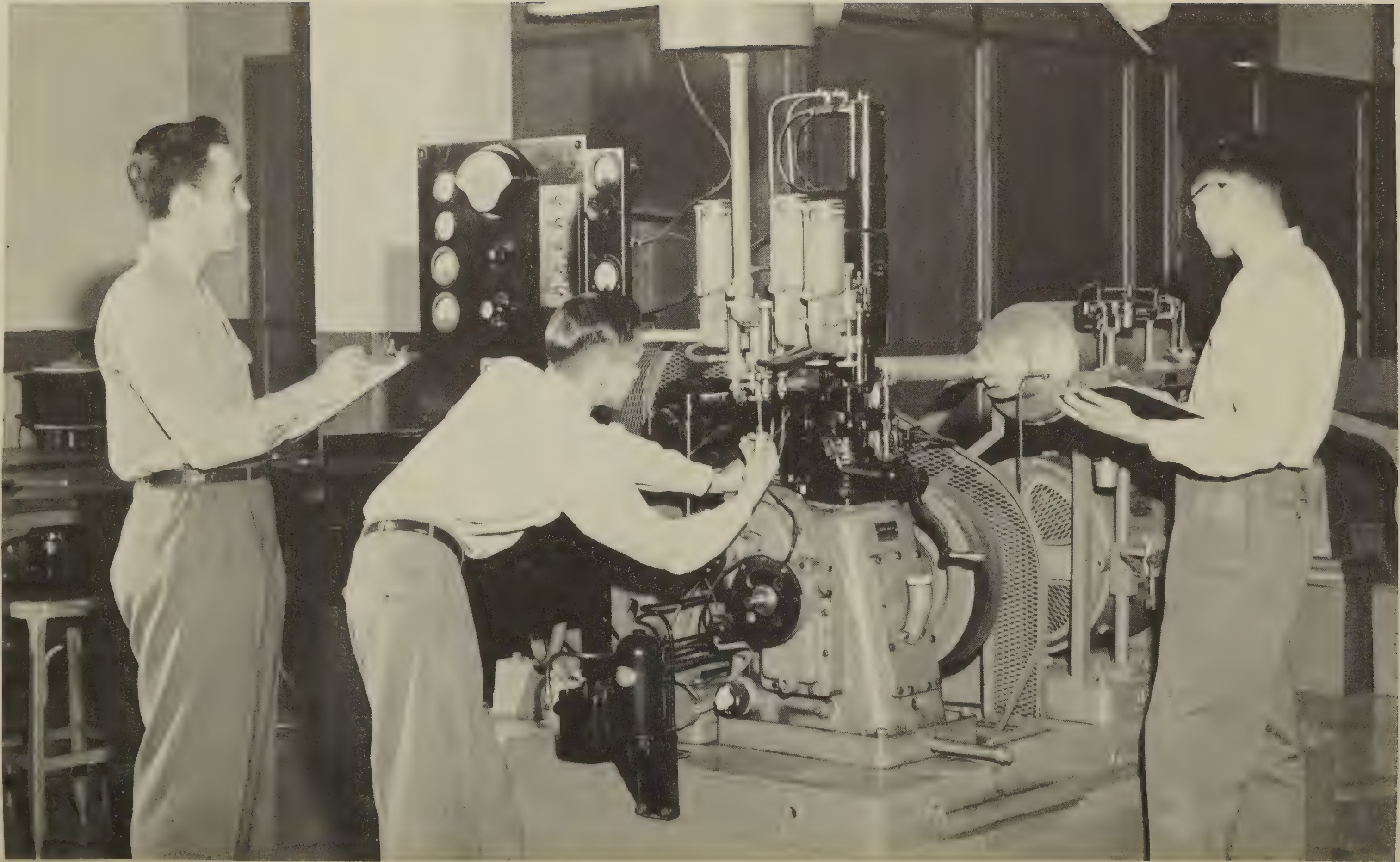
The products of the major industries manufacturing shoes, business machines, film and photographic supplies, and aircraft trainers and components are known the world over. Smaller industries turn out hundreds of diversified products.

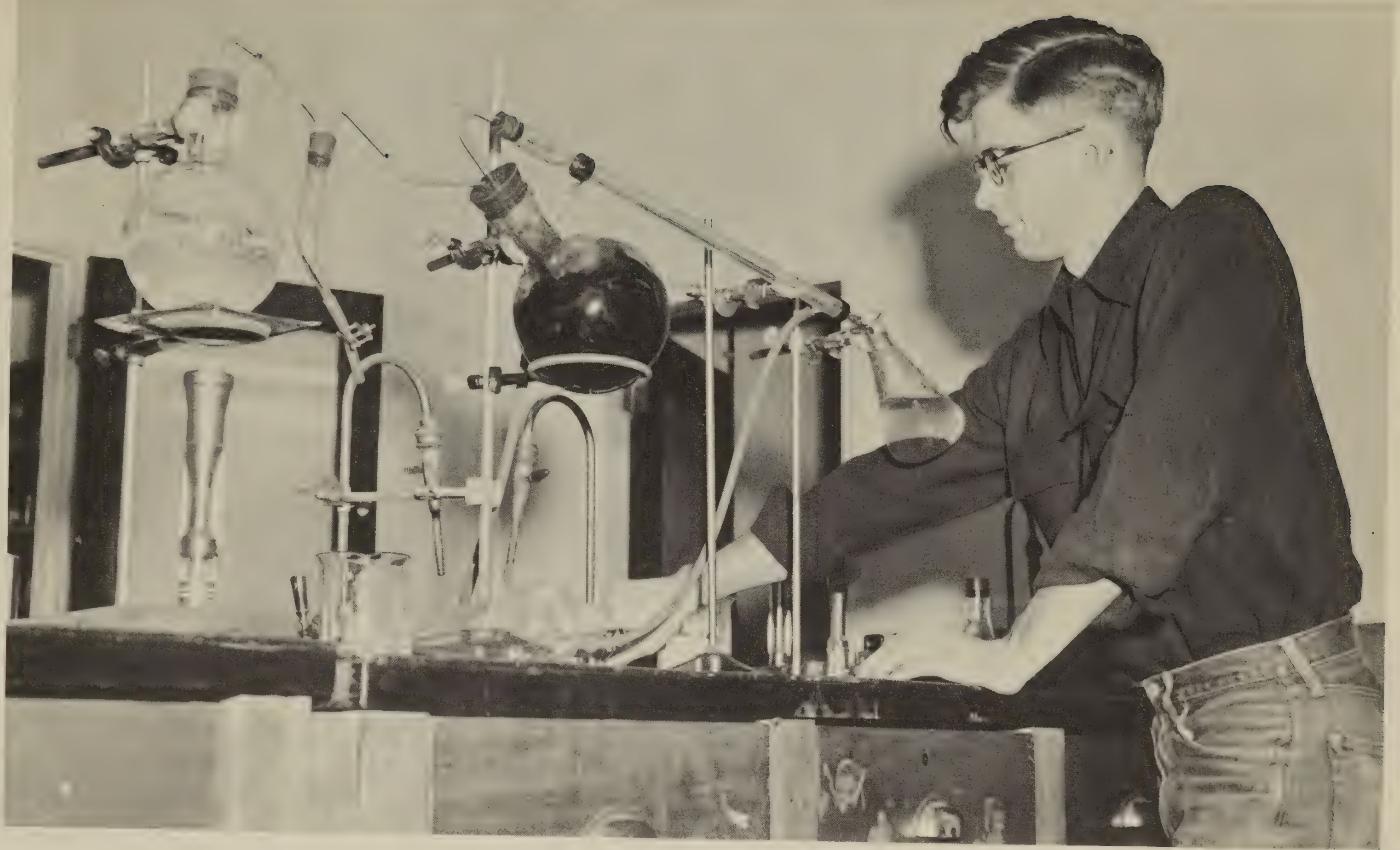
Broome County Technical Institute is presently located in Binghamton which can be easily reached by car via routes 7, 11, 12, 17. It is also served by three railroads and several bus lines. Air passenger and freight service to all parts of the country is available at the Broome County Airport on nearby Mt. Ettrick.

The combination of "big town" features with "small town" atmosphere makes the area an ideal one in which to work and live. The Institute is fortunate in its location and is proud to make its contribution to the community.

The Institute is temporarily housed in three buildings in downtown Binghamton, easily accessible from all parts of the Triple Cities by bus and equidistant from surrounding towns for commuters.

In the main building, Kalurah Temple, are the administrative offices, classrooms, drawing rooms, clinical laboratory, and office practice laboratory. Here also are the gymnasium, library, cafeteria and student lounge. Almost directly at the rear of the main building is the Prescott Building in which are located the laboratories and shops of Automotive, Chemical and Mechanical Technology. Close by are the Electrical Technology laboratories.





WHAT CURRICULUMS WE OFFER

AUTOMOTIVE TECHNOLOGY

Do you know that more than one out of every seven persons earning a living in the nation do so directly or indirectly from the automotive industry? Many thousands of these persons are working in the automotive service field. "But," reports a leading automotive magazine, "the feeling is mounting in the industry that more young men must be trained in the service end. The industry is aware that it has fallen short of obtaining the number of people needed to make proper diagnosis of and repair on the nation's cars and trucks."

The qualified automotive serviceman of today is a far cry from his predecessors of a few years back. Relatively little education or training were needed then to qualify for a job. Now the serviceman must be well trained to be productive. Modern cars with high-compression engines, automatic steering, four-barrel carburetors and automatic window lifts cannot be serviced with a thin dime and a good ear.

The Automotive Technology curriculum, developed in cooperation with the leading automobile manufacturers, includes a study of the fundamental sciences together with special applications to the operation and maintenance of the automobile, and a considerable amount of time devoted to the business management and sales phases of the business.

CURRICULUM OUTLINE

TERM 1

(Fall Term)

		Credit Hours
71	Communication Skills	3
81	Industrial Safety and First Aid	2
100	Machine Shop	2
101	Automotive Service Shop	1
110	Mathematics	3
130	Engineering Drawing	1
140	Mechanics	4
144	Fuels and Lubricants	4

TERM 2

(Winter Term)

72	Communication Skills	3
102	Automotive Service Shop	1
103	Automotive Machine Shop	1
111	Mathematics	3
141	Mechanics	3
145	Heat	4
160	Electricity	4

TERM 3

(Spring or Summer Term)[*]

73	Communication Skills	3
91	Psychology	3
104	Engine Rebuilding and Chassis Shop	2
112	Mathematics	3
131	Mechanisms	4
150	Internal Combustion Engines	3
159	Automotive Electricity	4

TERM 4

(Fall or Winter Term)[*]

		Credit Hours
92	Economics	3
105	Automotive Diagnosis	2
107	Automatic Transmissions	2
151	Internal Combustion Engines	4
155	Materials of Industry	4
162	Business Law	3
165	Accounting	3

TERM 5

(Spring Term)

93	Economics	3
106	Automotive Diagnosis	1
152	Internal Combustion Engines	4
166	Accounting	1
194	Business Management	3
	Technical Option	5

[*] Student is in school one term and in industry one term during these periods.

AUTOMOTIVE TECHNOLOGY

MATHEMATICS (110) 3 Credit Hours

Algebra with application to technical problems. Some of the phases covered are positive and negative numbers, factors and exponents, logarithms, binomial theorem, solution of linear and quadratic equations. The use of slide rule in the solution of problems.

MATHEMATICS (111) 3 Credit Hours

Plane trigonometry and graphical representation with emphasis on application to the student's field of study. The use of the slide rule in the solution of problems.

MATHEMATICS (112) 3 Credit Hours

A study of curves and equations; straight lines; conic sections; transformation of coordinates; polar coordinates; empirical equations and graphs.

ENGINEERING DRAWING (130) 1 Credit Hour

Orthographic projection, as a basis of understanding mechanical drawing and sketches. Assembly drawings, isometric sketching, exploded views.

MECHANISMS (131) 4 Credit Hours

The study of machine motion and basic mechanisms. Instantaneous velocities in machine parts, gears, cams and the theory of their design and operation; fundamental principles of planetary gearing. Special emphasis on automotive applications.

MECHANICS (140) 4 Credit Hours

Basic principles of statics and dynamics; study of forces, friction, work, power, energy, center of gravity, velocity and acceleration, curvilinear motion.

MECHANICS (141) **3 Credit Hours**

Further study of statics and dynamics, trusses, force systems in space, moment of inertia of areas and bodies, impulse and momentum.

FUELS AND LUBRICANTS (144) **4 Credit Hours**

Physical and chemical processes used in petroleum refining; combustion processes and equations; air-fuel ratio. Qualities of lubricating oils, greases, additives.

HEAT (145) **4 Credit Hours**

The principles of temperature and thermometry. The study of thermal phenomena, expansion of solids, liquids, and gases, the three states of matter, calorimetry, conduction, convention, radiation, properties of air, and elementary hydraulics.

INTERNAL-COMBUSTION ENGINES (150) **3 Credit Hours**

Perfect gas laws, working fluids, fundamental energy relations applied to heat engines and internal-combustion engines.

INTERNAL-COMBUSTION ENGINES (151) (152)
8 Credit Hours

The ideal engines, their effect on design and function of actual engines, carburetion, ignition, combustion, volumetric efficiency, engine output; laboratory exercises emphasizing these functions.

MATERIALS OF INDUSTRY (155) **4 Credit Hours**

Elementary metallurgy and strength of materials; metallic and non-metallic materials and their application to the automobile.

ELECTRICITY (160) **4 Credit Hours**

The fundamentals of direct-current and alternating-current circuits; magnetism and induction. The study of electrical machines, motors, generators, relays, and batteries.

AUTOMOTIVE ELECTRICITY (159) 4 Credit Hours

A study of the ignition, starting, charging, instrument, and lighting circuits of the modern automobile with laboratory testing of the various electrical components.

MACHINE SHOP (100) 2 Credit Hours

General machine shop processes; operations of the lathe, miller, drill press, use of hand tools and measuring instruments; study of speeds, feeds, cutting tool angles, threads, tapers.

AUTOMOTIVE SERVICE SHOP (101) (102) 2 Credit Hours

A laboratory course in automotive service conducted on a dealership basis including lubrication, tire service, wheel balance, brake adjustment, clutch adjustment, headlight adjustment, radiator service, and other shop service.

AUTOMOTIVE MACHINE SHOP (103) 1 Credit Hour

Continuation of Shop (100) plus study of grinding, honing and lapping; operation of surface, internal, and cylindrical grinders; welding and forging of metal, use of honing and valve-grinding equipment.

ENGINE REBUILDING AND CHASSIS SHOP (104) 2 Credit Hours

A study of engine rebuilding methods with shop applications; servicing and repair of various chassis components including steering, front-end assembly, clutch, brakes, and rear-end assembly.

AUTOMOTIVE DIAGNOSIS (105) (106) 3 Credit Hours

Diagnosis of the electrical system, engine and component parts, carburetion, and fuel system of the automobile with the use of specialized automobile testing units and diagnosis machines. Repair of the various electrical components.

AUTOMATIC TRANSMISSIONS (107) 2 Credit Hours

Principles of operation of fluid couplings, torque converters, planteary geartrains, servos and multiple-disc clutches. Practice in disassembly, repair, diagnosis, and maintenance of units of various manufacture.

BUSINESS LAW (162) 3 Credit Hours

Contracts, sales agreements, real and personal property, partnerships, corporations, finance agreements, labor law, tax law, guarantees, negotiable instruments, tenancies, bankruptcy, receivership, carriers, warehousing, deeds, mortgages, and mortgage relationships.

ACCOUNTING (165) (166) 4 Credit Hours

The science of record keeping from the basic definition of terms and fundamental accounting equation through books of original entry, final entry, and the trial balance. Numerous practical problems based on each topic. Adjusting, closing the books, worksheet, bad debts, depreciation, general and subsidiary ledgers, accounting practice set.

BUSINESS MANAGEMENT (194) 3 Credit Hours

Organization and management of automotive dealerships, with special emphasis on physical plant planning and cost estimating, costs, incomes, and problems of merchandising and servicing new and used vehicles. Individual student problems under supervision.

TECHNICAL OPTION 5 Credit Hours

Options will afford an opportunity for specialized study in fields of student interest particularly in the various phases of testing of fuels and lubricants as related to engine life and performance.

CHEMICAL TECHNOLOGY

FORTUNE magazine predicts that this will be known as "The Chemical Century." The distinguishing mark of the age is a basically new form of manufacture. The early part of the century was dominated by the fabrication of existing materials by mass production methods; however, in the latter part of the century chemical processes are creating new materials. Chemical technology has moved so fast that this industry accounts for about a fifth of the total national products.

There is one dark cloud on the horizon for the chemical industry: the lack of trained personnel. CHEMICAL ENGINEERING reports, "The industry enters a new era in which the shortage of technical men will be a major controlling factor—if not limiting factor—in any future expansion plans." Among the workers needed are technicians who are capable of filling responsible positions in research, development and testing laboratories, in pilot plants and production.

The Chemical Technology curriculum at the Broome County Technical Institute is designed to prepare ambitious and reliable young men and women as technicians in this fast-growing industry.

CURRICULUM OUTLINE

TERM 1

	(Fall Term)	Credit Hours
71	Communication Skills	3
91	Psychology	3
210	Mathematics	3
220	Heat, Light and Sound	4
230	Engineering Drawing	2
240	General Chemistry	4

TERM 2

(Winter Term)

72	Communication Skills	3
81	Industrial Safety and First Aid	2
211	Mathematics	3
221	Electricity	4
241	General Chemistry	4
242	Qualitative Chemistry	4

TERM 3

(Spring and Summer Term)*

73	Communication Skills	3
92	Economics I	3
243	Quantitative Chemistry	5
250	Organic Chemistry	7

TERM 4

	(Fall or Winter Term)*	Credit Hours
212	Mathematics	3
244	Quantitative Chemistry	5
251	Organic Chemistry	7
255	Industrial Chemistry	4

TERM 5

(Spring Term)

74	Communication Skills	3
93	Economics II	3
245	Advanced Quantitative Chemistry	4
256	Industrial Chemistry	5
296	Industrial and Labor Relations	3

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* Student is in school one term and in industry one term during these periods.

CHEMICAL TECHNOLOGY

MATHEMATICS (210) **3 Credit Hours**

Algebra with application to technical problems. Some of the phases covered are positive and negative numbers, factors and exponents, logarithms, binomial theorem, solution of linear and quadratic equations. The use of slide rule in the solution of problems.

MATHEMATICS (211) **3 Credit Hours**

Plane trigonometry and graphical representation with emphasis on application to the student's field of study. The use of the slide rule in the solution of problems.

MATHEMATICS (212) **3 Credit Hours**

Chemical calculations supplementary to the quantitative chemistry course. Problems used in making quantitative analysis calculations; oxidation-reduction, chemical factors, acid-base types, typical gas analysis.

GENERAL CHEMISTRY (240), (241) **8 Credit Hours**

The study of the principles necessary to understand the science of chemistry. Included are atomic and molecular structure, ionization, states of matter and their properties, solutions, formula writing and balancing, and the mathematical computations. The more common elements are studied in detail.

The laboratory work parallels the classroom theory and is designed to develop good work habits and the manipulative, observation, and reasoning powers of students.

QUALTITATIVE CHEMISTRY (242) 4 Credit Hours

A basic course in the principles of analytical chemistry. The theory is emphasized by laboratory applications utilizing a systematic separation and identification of materials by employing different physical and chemical properties.

QUANTITATIVE CHEMISTRY (243) 5 Credit Hours

A course on the theoretical principles on which analytical methods are based and their stoichiometric relationships. A study of the analytical balance, errors, precision and significant figures, preparation of samples for analysis; volumetric analysis by considering in detail neutralizations, oxidation-reduction, and volumetric precipitation.

A laboratory course demonstrates the principles by analyzing commercial products.

QUANTITATIVE CHEMISTRY (244) 5 Credit Hours

Gravimetric analysis with the study of equilibria involved, colloids, the formation and properties of precipitates, and the special methods such as electrodeposition, electrometric titration, and gasometric analysis.

ADVANCED QUANTITATIVE CHEMISTRY (245) 4 Credit Hours

A study of the use and theory of operation of instruments commonly used in analytical chemistry. Primarily a laboratory course designed to give students a working knowledge of the capabilities of the instruments used in making quantitative determinations by the following methods: electrolysis, colorimeters, spectrophotometric methods, refractometer, chromatography, polarograph, chemical microscope, gas absorption, potentiometric methods.

ORGANIC CHEMISTRY (250) 7 Credit Hours

A basic study of the important classes of carbon compounds such as the aliphatic and aromatic groups, the alcohols, ethers, esters, carbonyl compounds, carboxylic acids, amines, polysubstitutes, mixed and heterocyclia compounds in terms of modern electronic and resonance theories. A laboratory course is taken along with the theory.

ORGANIC CHEMISTRY (251) 7 Credit Hours

A study of special results of structures like tautomerism, rearrangements and stereoisomerism; the chemistry of dyes, carbohydrates, fats, and proteins. Some systematic identification of organic compounds. A laboratory course is taken along with the theory.

INDUSTRIAL CHEMISTRY (255) 4 Credit Hours

A study of the industrial adaptation of chemical processes in the manufacturing of chemicals and allied products, involving quantities, yields, handling of materials, the most efficient types of equipment, and the factors of the flow of energy and its best utilization. This work is based on specific studies of fuels, the flow of fluids, heat transfer, and evaporation. A laboratory course conducted in a manner similar to industrial research is included.

INDUSTRIAL CHEMISTRY (256) 5 Credit Hours

A continuation of Industrial Chemistry (255). Topics include size reduction and separation, humidity and air conditioning, drying, distillation and absorption.

ENGINEERING DRAWING (230) 2 Credit Hours

An introductory course in mechanical drawing. Instruction in the use of instruments, drafting conventions, dimensioning, and othographic projection. Emphasis on detail and working drawings, piping layouts, structural layouts and projects.

HEAT, LIGHT AND SOUND (220) 4 Credit Hours

This course in physics is divided into three parts: heat, light and sound. The material covered in the light portion consists of geometrical and physical optics, including the nature of light, reflection, refraction, lenses, optical instruments, polarization, emission and absorption of light.

In the heat portion of the course, a study of the measurement of temperature, expansion, calorimetry, change of state, heat and work, kinetic theory of gases and mechanical equivalent of heat.

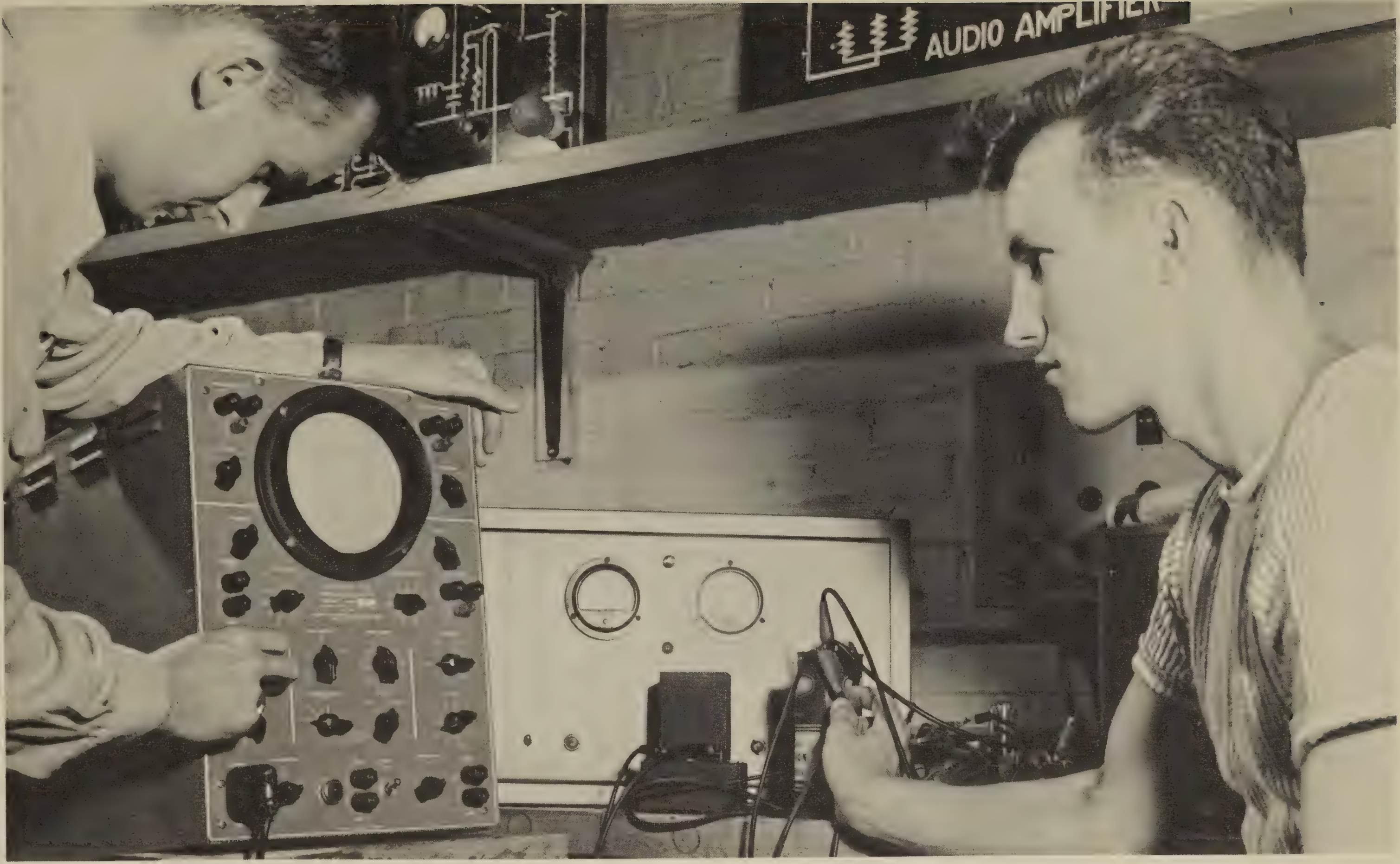
In the sound portion, a study of wave motion and sound, sound waves and velocity of sound.

ELECTRICITY (221) 4 Credit Hours

A study of electricity and magnetism. Magnetic and electrostatic fields, electric potential, Ohm's law, measurement of resistance by voltmeter and ammeter and by Wheatstone's bridge; laws of electrolysis, cell combinations, potentiometer, electromagnetism, Lenz's law, inductance and capacitance, simple a-c and d-c circuits, elements of electrical machinery, thermocouples, and thermionic emission.

INDUSTRIAL AND LABOR RELATIONS (296) 3 Credit Hours

The study of human relations in industry which includes a study of the individual and why he behaves as he does, group behavior and the reduction of destructive conflicts between groups. General case studies in which the human element is isolated and studied.


AUDIO AMPLIFIER

ELECTRICAL TECHNOLOGY

Electric power was first produced commercially in this country about 70 years ago. Today it has become an indispensable part of our daily living. It is an energizing force without which most industrial and even home activity would be impossible.

More than 87,000,000 kilowatts of electric power are installed in power plants of the country today. Evaluating horsepower as equivalent to 10 times the power of a man, the average factory worker is therefore supported by the equivalent of 75 slaves.

Needless to say, the human element is very important in this vast field. Thousands of trained people are needed—people to visualize, plan, build, direct and operate. Technical institutes, like Broome Tech, are becoming increasingly important in preparing well-trained men for the electrical field. As the President of the American Institute of Electrical Engineers put it, "The technical institutes can train men, and in some cases women, to do highly specialized work of an engineering nature in far less time than the normal four-year engineering course."

Demand exceeds the supply of Broome Tech graduates for positions in power generation, communications, illumination, electronics, research and testing.

CURRICULUM OUTLINE

TERM 1

(Fall Term)

		Credit Hours
71	Communication Skills	3
81	Industrial Safety and First Aid	2
300	Electrical Construction and Maintenance	2
310	Mathematics	3
330	Engineering Drawing	2
340	Electrical Circuits	5

TERM 2

(Winter Term)

72	Communication Skills	3
91	Psychology	3
301	Electrical Construction and Maintenance	2
311	Mathematics	3
331	Engineering Drawing	2
341	Electrical Circuits	5
360	Mechanics	3

TERM 3

(Spring or Summer Term)*

73	Communication Skills	3
302	Electrical Construction and Maintenance	1
332	Electrical Design	2
312	Mathemtaics	3
345	Electrical Machines	5
348	Electronics	6

TERM 4

(Fall or Winter Term)*

		Credit Hours
92	Economics	3
333	Electrical Design	1
346	Electrical Machines	5
349	Electronics	6
354	Industrial Control	4
394	Industrial Organization	3

TERM 5

(Spring Term)

93	Economics	3
334	Electrical Design	1
347	Electrical Machines	5
350	Electronics	6
355	Industrial Control	4
395	Industrial Organization	3

* Student is in school one term and in industry one term during these periods.

ELECTRICAL TECHNOLOGY

MATHEMATICS (310) **3 Credit Hours**

Algebra with application to technical problems. Some of the phases covered are positive and negative numbers, factors and exponents, logarithms, binomial theorem, solution of linear and quadratic equations. The use of slide rule in the solution of problems.

MATHEMATICS (311) **3 Credit Hours**

Plane trigonometry and graphical representation with emphasis on application to the student's field of study. The use of the slide rule in the solution of problems.

MATHEMATICS (312) **3 Credit Hours**

The application of mathematics to the solution of problems in Electrical Technology.

ENGINEERING DRAWING (330) **2 Credit Hours**

An introductory course in mechanical drawing. The technique of good lettering, practical geometry and geometric construction, the principles of orthographic projection and the theory and application of dimensioning.

ENGINEERING DRAWING (331) **2 Credit Hours**

Technical sketching and pictorial representation. Applications of auxiliary views, sections and conventions used in orthographic projection. The types and representation of threads, nuts, bolts, keys, keyways and locking devices and assembly drawings. Discussion of shop processes and procedures to facilitate the understanding of drafting problems which arise in the industrial drafting room. Emphasis on free-hand sketching of mechanisms.

ELECTRICAL DESIGN (332) **2 Credit Hours**

Electrical drafting to further the student's understanding of the principles of lighting design, wiring layouts, and the interpretation of schematic diagrams as applied to electrical control equipment.

The use of catalogs, charts, data sheets and the National Electrical Code book to obtain information needed for the layout and design of electrical circuits. Preparation of material lists and estimates of cost. Planning of lighting and control wiring layouts.

ELECTRICAL DESIGN (333) 1 Credit Hour

A further study of control circuit diagrams and outline drawings of panel and switch boards. Layouts of substations and transmission circuits. Interpretation of the schematic and one-line diagrams that are the engineering language of the electrical industry.

ELECTRICAL DESIGN (334) 1 Credit Hour

The application of electrical drafting in the field of electronics. Symbols, conventions, layout procedures, and circuit sequence that comprise an electronic circuit. The design of a circuit for an electronic device that the students may wish to construct, test and operate.

ELECTRICAL CIRCUITS (340) 5 Credit Hours

A study of d-c fundamentals; the solution of series, parallel, series-parallel, and complex circuits; magnetism, electro-magnetism, magnetic circuits, and instruments. Laboratory techniques, use and protection of equipment are correlated with the theory.

ELECTRICAL CIRCUITS (341) 5 Credit Hours

Continuation of work in direct current, covering inductance and capacitance. Alternating-current fundamentals; solution of series, parallel, and series-parallel circuits including use of polar vectors. The study of instruments and polyphase circuits.

ELECTRICAL MACHINES (345) 5 Credit Hours

A study of the theory of operation and characteristics of d-c machinery to give the student a sound background upon which he may base his judgment in solving problems that may arise in this field. A moderate amount of time devoted to design features. Considerable problem work for the purpose of giving the student a better understanding of the practical significance of the theory studied. Consideration of a few of the more basic types of specialized d-c machinery.

ELECTRICAL MACHINES (346) **5 Credit Hours**

First course in a-c machinery. A study of the theory and operation of power, auto and special transformers. Various connection methods of the above listed transformers. Alternator theory and operation.

ELECTRICAL MACHINES (347) **5 Credit Hours**

Second course in a-c machinery. A study of the theory and operation of polyphase induction, single-phase, and synchronous motors. Special emphasis on industrial applications.

ELECTRONICS (348) **6 Credit Hours**

Introductory course in electronics. The fundamentals of vacuum tubes and their application as rectifiers, amplifiers, oscillators, modulators and detectors, with emphasis on basic principles and applications.

ELECTRONICS (349) **6 Credit Hours**

A study of the properties of gas-filled tubes including thyratrons, ignitrons, glow tubes and mercury pool rectifiers. Industrial applications of electronic control such as electronic timing, photoelectric relays, resistance welding controls, and electronic motor control.

ELECTRONICS (350) **6 Credit Hours**

A study of the principles of operation of radio transmitters and receivers including both AM and FM types. Special circuits such as differentiators, integrators, peakers and multivibrators. Theory and applications of transmission lines and antennas.

INDUSTRIAL CONTROL (354) **4 Credit Hours**

Electrical device design and construction, and the methods of starting, stopping, braking and speed control of d-c motors. Special applications such as machine tool panels. Laboratory work in connecting, operating and trouble-shooting d-c control panels.

INDUSTRIAL CONTROL (355) 4 Credit Hours

A study of the principles underlying the control of machinery and the commercial methods of accomplishing this. The theory of electric control and protective devices of d-c motors. A-c contractors, relays and protective devices for a-c motors. Starting, stopping, reversing, and braking devices for a-c motors. Safety precautions and maintenance of equipment. Wiring, maintenance and trouble-shooting of industrial control equipment.

MECHANICS (360) 3 Credit Hours

A basic course in the principles of statics. The study of composition and resolution of forces, concurrent-coplanar forces, parallel forces, center of gravity, force couples, non-coplanar forces and friction. Some time will be devoted to the principles of dynamic forces.

ELECTRICAL CONSTRUCTION AND MAINTENANCE (300), (301), (302) 5 Credit Hours

A sequence of courses to familiarize the student with general trade practices and the acquiring of basic manipulative skills. A wide variety of experience in the installation and maintenance of electrical equipment. Basic training in different types of wiring systems used in industry and homes; trouble-shooting and repair of various types of electrical equipment; use of the lathe, drill press, shaper, welder, and other associated equipment. The study of the National Electrical Code Rules, general shop safety practices. Some electrical estimation work.

INDUSTRIAL ORGANIZATION (394) 3 Credit Hours

A treatment of management essentials and the interrelationship of specialized functions together with the principles governing them. Includes organization of basic industrial structures, organizing physical facilities, developing the product, production and quality control.

INDUSTRIAL ORGANIZATION (395) 3 Credit Hours

Administration of industrial relations: personnel management, employee training, job evaluation, merit rating, sales and budgetary control, and coordination of the enterprise. General case problems are studied.

MECHANICAL TECHNOLOGY

New York is the greatest industrial state in the nation. About one out of every five of the nation's factories lies inside its borders. Of the 453 types of industries classified by the Bureau of the Census, 430 are found in the State, a larger number than in any other state. Thirty percent of its workers are engaged in manufacturing as compared with 25% in the rest of the country.

In order to maintain and expand such concentrated industrial capacity, there must be a constant reservoir of trained men. Furthermore, the level of technical competence required in the mechanical field is becoming increasingly higher because of the complexity of modern machinery.

It is well known that industry today is concerned about the availability of engineering and technical personnel. This need is felt particularly in New York State because of the number and variety of its industries.

There is a broad area in industry in which the employment of graduate engineers is desirable but not essential: quality control, production, planning, drafting, time study, and sales. More and more employers are turning to technical institute graduates to fill positions on the technician level.

The two-year Mechanical Technology program at Broome Tech is preparing young men to take their places as technicians and engineering aides in the industries of New York and other states.

CURRICULUM OUTLINE

TERM 1

(Fall Term)		Credit Hours
71	Communication Skills	3
81	Industrial Safety and First Aid	2
400	Shop	2
410	Mathematics	3
430	Engineering Drawing	2
440	Mechanics	4

TERM 2

(Winter Term)

72	Communication Skills	3
91	Psychology	3
401	Shop	2
411	Mathematics	3
431	Engineering Drawing	1
441	Mechanics	3
445	Heat	4

TERM 3

(Spring or Summer Term)*

73	Communication Skills	3
92	Economics	3
402	Shop	2
412	Mathematics	3
432	Mechanisms	4
442	Strength of Materials	4
446	Metallurgy	4

TERM 4

(Fall or Winter Term)*		Credit Hours
93	Economics	3
403	Shop	2
413	Mathematics	3
433	Machine Design	4
448	Mechanical Machines	4
460	Electricity	4
475	Technical Reports	1

TERM 5

(Spring Term)

404	Advanced Processes	2
434	Production Design	3
449	Mechanical Machines	4
450	Quality Control	4
461	Electricity	4
494	Industrial Organization	3

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* Student is in school one term and in industry one term during these periods.

MECHANICAL TECHNOLOGY

MATHEMATICS (410) **3 Credit Hours**

Algebra with application to technical problems. Some of the phases covered are positive and negative numbers, factors and exponents, logarithms, binomial theorem, solution of linear and quadratic equations. The use of slide rule in the solution of problems.

MATHEMATICS (411) **3 Credit Hours**

Plane trigonometry and graphical representation with emphasis on application to the student's field of study. The use of the slide rule in the solution of problems.

MATHEMATICS (412) **3 Credit Hours**

A study of curves and equations, straight lines, conic sections, transformation of coordinates, polar coordinates, empirical equations, and graphs.

MATHEMATICS (413) **3 Credit Hours**

A study of calculus fundamentals, functions and limits, differentiation of standard forms, maxima and minima, integration of standard forms, integration of more complex forms by various devices.

ENGINEERING DRAWING (430) **2 Credit Hours**

An orientation course in the basic phases of engineering drawing including orthographic projection, pictorial representation, geometric construction and pattern development. Freehand sketching of models and machine parts.

ENGINEERING DRAWING (431) **1 Credit Hour**

Continuation of Drawing (430) with emphasis on detail and essembly working drawings. Selected projects to illustrate the conventions and standards of welding, piping and tolerances.

MECHANISMS (432) 4 Credit Hours

The study of machine motion and basic mechanisms. Instantaneous velocities in machine parts, gears, cams and the theory of their design and operation; fundamental principles of planetary gearing.

MACHINE DESIGN (433) 4 Credit Hours

A basic course in machine design covering the selection of materials, stress investigation, and the design of the fundamental machine elements.

PRODUCTION DESIGN (434) 3 Credit Hours

Process planning, selection of machinery, sequence of operations, speed and feeds, selection of standard tools, design of dies, jigs, fixtures and gages.

MECHANICS (440) 4 Credit Hours

Basic principles of statics and dynamics; study of forces, friction work, power, energy, center of gravity, velocity and acceleration, curvilinear motion.

MECHANICS (441) 3 Credit Hours

Further study of statics and dynamics, trusses, force systems in space, moment of inertia of areas and bodies, impulse and momentum.

STRENGTH OF MATERIALS (442) 4 Credit Hours

The relationship between stress and strain; the calculation of stresses in machine parts, beams and columns; the use of shear and moment diagrams; the determination of moments of inertia and centers of gravity, and the analysis of the effect of loading on stress distribution. Tests on wood, concrete, plastics and metal on standard testing machines in accordance with the A. S. T. M. testing procedures.

HEAT (445) **4 Credit Hours**

The principles of temperature and thermometry. The study of thermal phenomena, expansion of solids, liquids, and gases, the three states of matter, calorimetry, conduction, convention, radiation, properties of air, elementary hydraulics.

METALLURGY (446) **4 Credit Hours**

The fundamentals of the physical metallurgy of ferrous and non-ferrous alloys. Investigation of the physical properties of metals. Hardness tests, thermal analysis and grain structure examination.

MECHANICAL MACHINES (448) **4 Credit Hours**

Energy equations, perfect gas relations, combustion processes, heat engines, internal-combustion engines, steam-power equipment; laboratory exercises.

MECHANICAL MACHINES (449) **4 Credit Hours**

Hydraulics, fluid mechanics, pumps, fans, compressors, refrigeration theory, heat transfer, air conditioning and surveying; laboratory exercises.

QUALITY CONTROL (450) **4 Credit Hours**

The use of inspection methods to secure the control of quantity production of complex assemblies. The use of statistical principles in sampling, and the determination of variables and standard quality.

ELECTRICITY (460, (461) **8 Credit Hours**

The fundamentals of direct-current and alternating-current circuits; magnetism and induction. The study of electrical machines, motors, generators, relays, and transformers. The elements of electronics and the electronic circuits; uses of electronic devices in the control of mechanical equipment.

SHOP (400) **2 Credit Hours**

The elements of machine tool operations involving the use of.

the lathe, miller, shaper and drill press, fundamental bench operations. Study of cutting speeds and feeds, coolants, threads, tapers, drills, reamers and cutting tool angles.

SHOP (401) **2 Credit Hours**

Continuation of Shop (400) plus operations of the surface, cylindrical, internal and tool and cutter grinders, lapping, honing and scraping. Study of abrasives, grinding wheels and grinding methods.

SHOP (402) **2 Credit Hours**

Advanced operations on the lathes and milling machines, boring, internal threading, gear cutting and spiral milling. Problems in precision hole location involving jig boring, mill boring and lathe boring. Study of boring methods, helix angles and precision methods of measurement.

SHOP (403) **2 Credit Hours**

Use of inspection measuring instruments. The study of welding, forging and heat treating.

ADVANCED PROCESSES (404) **2 Credit Hours**

An advanced study of strength of materials and metallurgy as applied to the manufacturing processes. The study of weld tests, corrosion, fatigue, creep, hardenability, stress concentration; laboratory work.

INDUSTRIAL ORGANIZATION (494) **3 Credit Hours**

Physical facility requirements, principles of mass production, production planning and control, plant layout, industrial engineering.

TECHNICAL REPORTS (475) **1 Credit Hour**

Presentation of technical reports, oral and written.

MEDICAL OFFICE ASSISTANT

In the field of medicine, always a fascinating one for many young women, a new and interesting career has opened up in the last few years—the Medical Office Assistant.

Broome County Technical Institute prepares young women of ability and character for this career by offering specialized training, combining secretarial work with clinical laboratory procedures. Experience has shown that intensive courses of instruction in the business field, together with clinical laboratory work, have prepared the graduates for good employment opportunities in physicians' offices, hospital laboratories and record rooms, and related fields.

The Medical Office Assistant must be versatile, fitted by training and personality to work with professional medical people in various ways. In addition to general education, she needs basic knowledge and skills such as typing, medical shorthand, accounting and office procedures. Anatomy, physiology, bacteriology, chemistry, and materia medica are working tools and a base for acquiring the vocabulary of medicine. Routine clinical laboratory procedures in urinalysis, hematology and blood chemistries complete the curriculum.

Graduates, too few to meet the demand, are finding satisfaction, variety, and opportunity in this important phase of medical service.

CURRICULUM OUTLINE

TERM 1

(Fall Term)

		Credit Hours
71	Communication Skills	3
501	*Typewriting	2
504	*Shorthand	3
510	Mathematics	3
543	Anatomy and Physiology	4
549	Materia Medica	3
	*Elective	3

TERM 2

(Winter Term)

72	Communication Skills	3
502	Typewriting	2
505	Shorthand	3
511	Mathematics	3
544	Anatomy and Physiology	3
560	Elements of Chemistry	4

TERM 3

(Spring Term)

73	Communication Skills	3
92	Economics I	3
503	Typewriting	2
506	Shorthand	3
545	Clinical Laboratory	3
555	Office Procedure	1
561	Elements of Chemistry	4

TERM 4

(Fall Term)

		Credit Hours
93	Economics II	3
507	Transcription	3
540	Accounting	3
546	Clinical Laboratory	3
550	Bacteriology	2
562	Elements of Electricity	4

TERM 5

(Winter Term)

82	Health	2
91	Pyschology	3
508	Medical Shorthand	3
541	Accounting	3
547	Clinical Laboratory	3
551	Bacteriology	2
556	Office Practice	2

TERM 6

(Spring Term)

74	Communication Skills	3
509	Medical Shorthand	3
548	Clinical Laboratory	3
552	Pediatrics	2
557	Office Practice and Accounting	2
558	Business Law	3

* Indicates option. Student takes only one of these courses in any one semester.

MEDICAL OFFICE ASSISTANT

TYPEWRITING (501), (502) **4 Credit Hours**

Mastery of the keyboard by touch; operation and care of the typewriter; writing business letters; addressing envelopes; manuscript typing; development of speed.

TYPEWRITING (503) **2 Credit Hours**

Continuation of basic skill-building with emphasis on speed and advanced problems. Rough drafts, medical data, manuscripts, legal papers.

SHORTHAND (504), (505) **6 Credit Hours**

Presentation of principles of the new simplified Gregg Shorthand; reading and writing in shorthand; development of dictation speed.

SHORTHAND (506) **3 Credit Hours**

More emphasis on the building of transcription skill. Further drill for dictation speed. Some beginning of medical dictation.

TRANSCRIPTION (507) **3 Credit Hours**

Development of skill in reading shorthand notes and turning out from them a mailable transcript on the typewriter.

MEDICAL SHORTHAND (508), (509) **6 Credit Hours**

Dictation of medical material to be transcribed on the typewriter. Further drives for speed at taking dictation under the same standards described in "Shorthand." The building of medical vocabulary which can be taken in shorthand and transcribed accurately on the typewriter. The use of medical dictionaries.

MATHEMATICS (510) **3 Credit Hours**

Review of common and decimal fractions with their application in percentage and proportional problems. A study of metric and apothecaries' measures of weight and volume used in the preparation of solutions and dosages. Equivalent measures in household, metric and apothecaries with practice in converting from one system to another. Mathematics involved in the preparation of hypodermic and oral medications, from concentrated solutions, tablets or full-strength drugs.

MATHEMATICS (511) **3 Credit Hours**

Short methods and checking of accuracy in the fundamental processes. The use of fractions in business. Practice with decimals and percentage. A study of the mathematics used in banking, profits, discounts, partial payments, wages, interest, pricing of merchandise and installment buying in preparation for accounting.

ACCOUNTING (540) **3 Credit Hours**

The science of record keeping from the basic definition of terms and the fundamental accounting equation through books of original entry, final entry, and the trial balance. Numerous practical problems based on each topic.

ACCOUNTING (541) **3 Credit Hours**

A continuation of Accounting (540) adjusting, closing the books, worksheet, bad debts, depreciation, obsolescense, general and subsidiary ledgers. Problems and set.

ANATOMY & PHYSIOLOGY (543), (544) 7 Credit Hours

A study of the structure and function of the body as an integrated whole. An overview of skeletal, muscular, circulatory, respiratory, digestive system and nervous system. Vocabulary building.

CLINICAL LABORATORY (545), (546), (547), (548) 12 Credit Hours

A sequence of courses in the study and practice of clinical techniques employed in the doctor's offices and hospital laboratories. Included are urinalysis, hematology and blood chemistry. Some of the procedures covered: blood counts, hemaglobin determination, color index, blood sugar, cholesterol, and non-protein-nitrogen determination.

MATERIA MEDICA (549) 3 Credit Hours

A study of the various classes of commonly used drugs and their effects on the human body. The administration of medicines and the uses of antiseptics and disinfectants.

BACTERIOLOGY (550), (551) 4 Credit Hours

A study of the micro-organisms that cause disease in man, including a brief discussion of their size, shape, staining reactions and the manner in which they grow; micro-organisms that cause typhoid, tuberculosis, diphtheria and tetanus; the ways and means by which the human body combats the various infectious organisms.

PEDIATRICS (552) 2 Credit Hours

Emphasis on the child as an individual in both health and disease, from the standpoint of his total well-being from birth to school age. An overview of the common diseases of childhood.

OFFICE PROCEDURE (555) 1 Credit Hour

Some of the practical office procedures used in a physician's office, such as the correct use of the telephone, sterilization of instruments and gloves, the keeping and filing of patients' records, the general care of the office. Professional ethics.

OFFICE PRACTICE (556) 2 Credit Hours

Basic training in the operation of various types of adding machines, dictating equipment and transcribing. Stencil and spirit duplicating. Experience at alphabetic, numeric, and subject filing.

OFFICE PRACTICE & ACCOUNTING (557) 2 Credit Hours

Practical use of medical forms used by Insurance, Workmens' Compensation and Welfare Departments. Practical set of physicians' financial records.

BUSINESS LAW (558) 3 Credit Hours

A basic understanding of our courts, legal procedures, and working knowledge of legal principles. Emphasis throughout the study on the fundamental law of Contracts and its applications to sales, bailments, negotiable instruments, agency, insurance and property.

ELEMENTS OF CHEMISTRY (560), (561) 8 Credit Hours

The fundamental laws and theories of chemistry together with the properties and uses of the common elements, both metallic and non-metallic, and their compounds. Laboratory work illustrating the basic principles of chemistry to enable the student to examine the behavior of elements and compounds.

ELEMENTS OF ELECTRICITY (562) 4 Credit Hours

A course of basic electricity, light, and sound with emphasis on the application to every-day life and the medical field.

TECHNICAL OFFICE ASSISTANT

There is no doubt that the nation's industries would come to a standstill if the secretarial and office personnel should all go on leave at the same time. The amazing progress of industry in this century has been made possible, in part, by the efficiency of the people who handle the "paper work." Reports, memorandums, correspondence, requisitions, records, accounts, payrolls—these are the very heart of an industry.

There was a time in earlier days when preparation for any kind of office work required only the mastery of basic business skills. Application of the skills to a particular company could be learned on the job. Not so today, especially in the industrial world. Without a knowledge of the company's machines, processes and technical vocabulary, the modern office worker is seriously handicapped.

The Technical Office Assistant curriculum at Broome Tech enables young men and women to acquire these skills and experiences before employment. One phase covers business subjects: typewriting, shorthand (with emphasis on technical dictation), communication skills, accounting, business machines, and office procedures. Paralleling these studies are technical courses in mathematics, drawing, chemistry, electricity, and mechanics, with shop and laboratory work.

Industrial employers are especially interested in employing young men, since they normally have more mechanical interest and aptitude. The young man with a combination business and technical background has unlimited possibilities for advancement.

CURRICULUM OUTLINE

TERM 1

(Fall Term)		Credit Hours
71	Communication Skills	3
81	Industrial Safety and First Aid	2
601	**Typewriting	2
604	*Shorthand	3
610	Mathematics	2
630	Drawing	1
666	Shop	1
	**Elective	3
	*Elective	3

TERM 2

(Winter Term)		
72	Communication Skills	3
602	Typewriting	2
605	*Shorthand	3
611	Mathematics	3
631	*Drawing	1
664	Elements of Mechanical Technology	4
667	Shop	1

TERM 3

(Spring Term)		
73	Communication Skills	3
91	Psychology	3
603	Typewriting	2
606	*Shorthand	3
612	Mathematics	2
665	Elements of Mechanical Technology	4
632	*Layout	1

TERM 4

(Fall Term)		Credit Hours
92	Economics I	3
607	*Transcription	3
607A	*Machine Transcription for Mechanical Option	3
640	Accounting	3
659	Principles of Transportation	3
660	Elements of Chemical Technology	4

TERM 5

(Winter Term)		
93	Economics II	3
608	*Technical Shorthand	3
641	Accounting	3
655	*Payroll Accounting	3
656	Office Practice	4
658	Business Law	3
662	Elements of Electrical Technology	4

TERM 6

(Spring Term)		
74	Communication Skills	3
609	*Technical Shorthand	3
642	Accounting	3
657	Office Practice	4
663	Elements of Electrical Technology	4
694	Industrial Organization	3
	*Elective	3

* and ** Indicates option. Student takes only one of these courses in any one semester.

TECHNICAL OFFICE ASSISTANT

TYPEWRITING (601), (602) **4 Credit Hours**

A beginning sequence in touch typewriting to make the operator accurate, rhythmical and moderately rapid in the operation of the standard makes of office typewriter. Care of the machine, operation of the various parts. Business letters, simple tabulation, and the building of typewriting speed based on ten-minute tests.

TYPEWRITING (603) **2 Credit Hours**

Continuation of basic skill-building with emphasis on speed and advanced problems. Among the topics: rought drafts, technical data such as specifications, manuscripts, legal papers.

SHORTHAND (604), (605) **6 Credit Hours**

A beginning course in the Gregg system, simplified. Basic principles and theory, some dictation being given at slow speeds.

SHORTHAND (606) **3 Credit Hours**

A thorough review, with continuing drill, on all principles and theory. Training in speed-building, spelling, English grammar and punctuation, with dictation from various fields of business and industry.

TRANSCRIPTION (607), (607-A) **3 Credit Hours**

Development of skill in reading shorthand notes and turning out from them a mailable transcript on the typewriter. Mechanical option will transcribe from machine dictation.

TECHNICAL SHORTHAND (608), (609) **6 Credit Hours**

Dictation of technical material to be transcribed on the typewriter. Further drives for speed of dictation. Building of the technical vocabulary found in Chemical, Electrical, Mechanical, Civil Engineering. Use of specifications, contracts and letters from these fields and the building construction industry. Use of standard secretarial references and dictionaries to check the accuracy of spelling and word meaning.

MATHEMATICS (610) — 2 Credit Hours

A review of arithmetic and its application to technical problems. Fractions, decimals, percentage and proportion. The slide rule and its use in the above processes.

Algebra—a study of the fundamental algebraic operations and their application to the solution of technical problems. Equations and formulas as applied to the fundamentals of geometry and physics. A two-hour laboratory period each week is devoted to the application of the mathematics being studied to the solution of problems that the student will encounter in his technical work.

MATHEMATICS (611) — 3 Credit Hours

A continued study of the fundamentals of algebra. The solution of higher order equations. The use of logarithms in the solution of problems. Further application of the slide rule. Trigonometry and its use in the solution of technical problems. Practice in the use of tables in both logarithms and trigonometry.

MATHEMATICS (612) — 2 Credit Hours

Short methods and checking of accuracy in the fundamental processes. The use of fractions in business. Practice with decimals and percentage. A study of the mathematics used in banking, profits, discounts, partial payments, wages, interest, pricing of merchandise and installment buying in preparation for accounting.

ENGINEERING DRAWING (630) — 1 Credit Hour

An introductory course in mechanical drawing. The technique of good lettering, practical geometry and geometric construction, the principles of orthographic projection and the theory and application of dimensioning.

ENGINEERING DRAWING (631) **1 Credit Hour**

Technical sketching and pictorial representation. Applications of auxiliary views, sections and conventions used in orthographic projection. The types and representation of threads, nuts, bolts, keys, keyways and locking devices and assembly drawings. Discussion of shop processes and procedures to facilitate the understanding of drafting, problems which arise in the industrial drafting room. Emphasis on freehand sketching of mechanisms.

LAYOUT (632) **1 Credit Hour**

Basic architectural drafting, including floor plans, elevations, heating, plumbing and electrical systems, as well as building materials.

ACCOUNTING (640) **3 Credit Hours**

The science of record keeping from the basic definition of terms and the fundamental accounting equation through books of original entry, final entry, and the trial balance. Numerous practical problems based on each topic.

ACCOUNTING (641) **3 Credit Hours**

A continuation of Accounting (640) adjusting, closing the books, worksheet, bad debts, depreciation, obsolescense, general and subsidiary ledgers. Problems and set.

ACCOUNTING (642) **3 Credit Hours**

Columnar journals, partnerships, corporations, voucher system, analysis and interpretation of financial statements. Intensive work on a practice set of books taken from the field.

PAYROLL ACCOUNTING (655) **3 Credit Hours**

A comprehensive coverage of the legislation behind and practical application of accounting for Social Security and Tax withholding, from the standpoint of the employer.

OFFICE PRACTICE (656), (657) 8 Credit Hours

Basic training in the operation of dictating machines, four types of adding-calculating machines, duplicating processes. Work in different departments of a hypothetical manufacturing concern, rotating through Mailing, Stenographic, Filing, Statistical, Library, Advertising, Purchasing, Credit, Billing, Legal, Treasurer and Sales Manager. Emphasis on proper attire, desirable work attitudes, business ethics.

BUSINESS LAW (658) 3 Credit Hours

A basic understanding of our courts, legal procedures, and working knowledge of legal principles. Emphasis throughout the study on the fundamental law of contracts and its applications to sales, bailments, negotiable instruments, agency insurance and property.

PRINCIPLES OF TRANSPORTATION (659) 3 Credit Hours

An introduction to the fundamental principles of transportation economics. Transportation's role in the production, manufacture, and consumption of commodities. A discussion of railroads, their ownership and management, patterns of organization and functions of their chief executives. An explanation of the work of the Traffic, Real Estate, Tax and Personnel Departments of railroads.

ELEMENTS OF CHEMICAL TECHNOLOGY (660) 4 Credit Hours

The study of the major industrial fields of chemistry emphasizing processes and materials with basic theory incorporated.

ELEMENTS OF ELECTRICAL TECHNOLOGY (662), (663) 8 Credit Hours

A sequential program in the field of electrical technology. Some of the phases covered are basic principles and laws of electrical circuits, transmission of power, basic theory of electrical machines, light and illumination measurement. Basic theory of vacuum tubes, electrical circuits and the application to practical electrical equipment.

ELEMENTS OF MECHANICAL TECHNOLOGY (664), (665) 8 Credit Hours

A study of the elementary fundamental concepts of applied mechanical technology covering mechanics, heat, power, fluids, strength of materials, and metallurgy as applied in engineering and industrial processes. Lecture and laboratory work.

SHOP (666) 1 Credit Hour

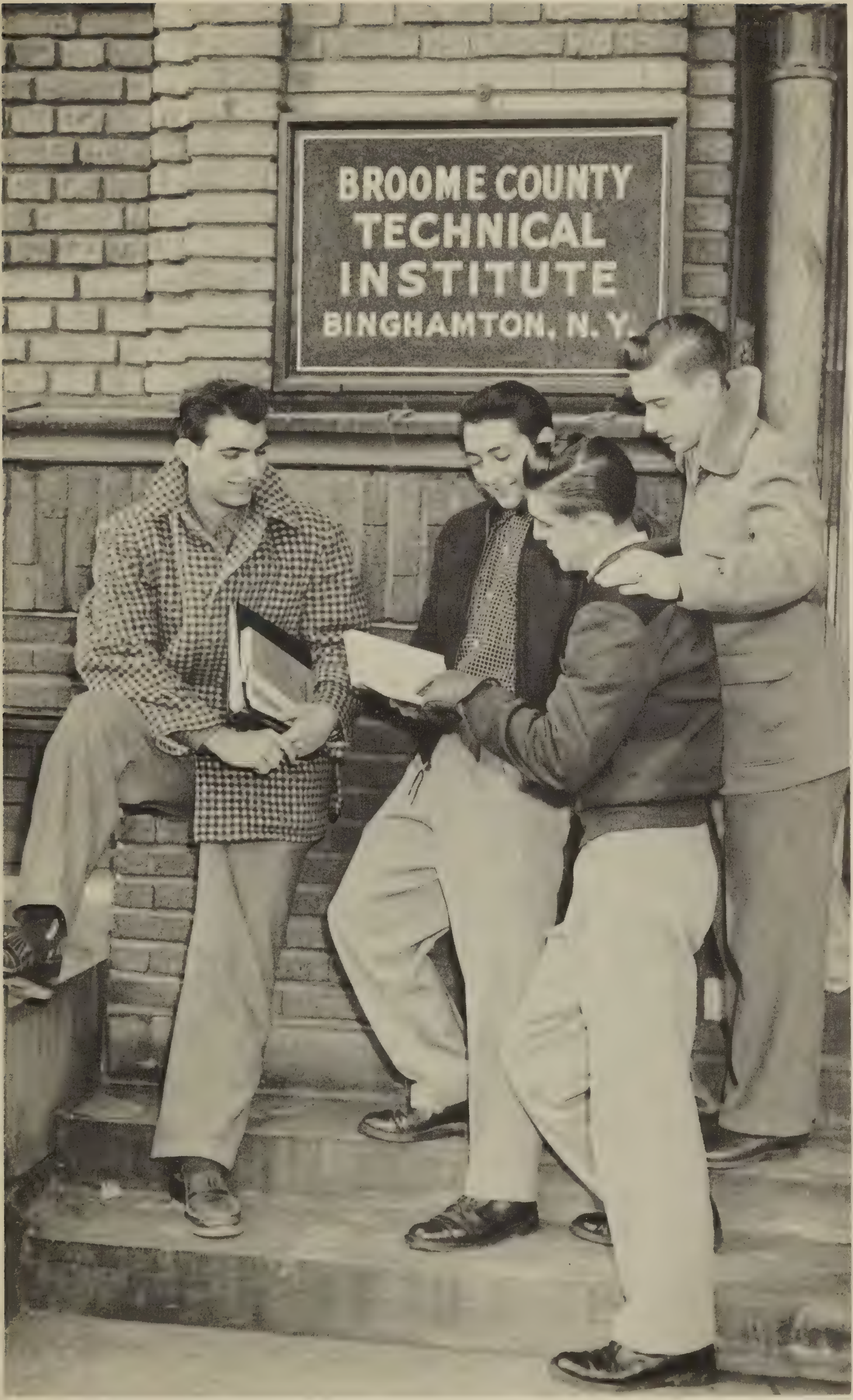
A study of machines commonly found in a metal processing shop. A discussion of the function of the various parts of the machine. Practice in processing metals, leading to an acquaintance with technical and shop terms and an appreciation of what is done in machine shops.

SHOP (667) 1 Credit Hour

Observation and discussion of the materials used in industry to produce machines, appliances, containers, etc. Demonstration and experiences in fashioning some of the common materials into usable products.

INDUSTRIAL ORGANIZATION & MANAGEMENT (694) 3 Credit Hours

A treatment of management essentials—functions and the principles governing them. Included are approaches to management decisions, organization structure, physical facilities, production control, work simplification, quality control, job and merit rating. General case problems are studied,


BROOME COUNTY
TECHNICAL
INSTITUTE
BINGHAMTON, N. Y.

GENERAL EDUCATION

Considerable emphasis is placed on the vocational objectives in all the curriculums. However, the Institute is equally concerned with the broader objective of well-rounded personal development.

A worker does not function in a vacuum. He works with and for others, makes decisions which affect himself and others, expresses his views, is aware of the value of good health. Outside of working hours he has obligations to his family, takes part in community affairs, and is concerned with the welfare of his country and its relations with other countries.

All of these activities influence his effectiveness as a worker and a member of society. Therefore General Education should be and is an important part of the Institute instruction.

Communication Skills courses seek to develop an appreciation of language as a means of communication, and facility in the use of the spoken and written word..

A sequence of courses in Economics is concerned with a study of the American economic system.

Psychology gives the students an insight into human nature which will prepare them for acceptable service in the industrial and professional world.

Students in the technology curriculums are given instruction in industrial safety practices and first aid, and an introduction to the rapidly expanding field of industrial and labor relations.

In these non-technical studies and in the varied program of student activities described elsewhere, opportunity is given to develop the skills, knowledge and attitudes for the living of a satisfactory life.

GENERAL EDUCATION

COMMUNICATION SKILLS (71) 3 Credit Hours

The first in a sequence of courses to develop the skills of reading, writing, speaking and listening. A study of the nature of the English language: history, symbolism, context, denotation, connotation, emotive language, report language. Similarities and differences of oral and written English. Parliamentary procedure. Presentation of oral and written reports (throughout the sequence).

COMMUNICATION SKILLS (72) 3 Credit Hours

A study of the levels of usage and grammar, and the effective organization of ideas. Development of reading skill.

COMMUNICATION SKILLS (73) 3 Credit Hours

Business correspondence. Types and techniques of group discussion. A study of the media of mass communication—press, films, radio, television.

COMMUNICATION SKILLS (74) 3 Credit Hours

Advanced writing and speaking problems. Technical reports. Participation in panels and symposiums.

INDUSTRIAL SAFETY AND FIRST AID (81) 2 Credit Hours

A study of accident sources and causes; safety as a responsibility of workers and management; job safety analysis; education, training, supervision, and organization for safety; accident reports and records; the principles of First Aid as applied to industry.

HEALTH (82) 2 Credit Hours

The fundamental principles of First Aid as outlined by the Standard Red Cross course such as prevention and treatment of shock, burns, wounds and hemorrhage. Demonstration and practice of artificial respiration. The second phase of the course consists of the basic fundamentals of nutrition, including individual differences and requirements.

PSYCHOLOGY (91) **2 Credit Hours**

Designed to give the students insight into human nature which will prepare them for acceptable service in employment. Personality development, techniques involved in dealing with people, vocational adjustment and efficiency, intelligence, learning, leadership, and mental hygiene.

ECONOMICS (92) **3 Credit Hours**

A study of the American economy. A survey of occupational objectives; professional ethics; fundamental economic principles; standards of living in the United States; production; marketing; forms of business ownership; large-scale business enterprise; prices; monopoly; our national income; distribution of personal income in the United States; money, credit, banking; America's role in international finance.

ECONOMICS (93) **3 Credit Hours**

A continuation of the study of basic principles of the American economic system and their applications. Taxation and public finance; labor-management relations and their effect upon the public; business-cycles in the United States; international trade and other international economic relations; how our political policies affect the rest of the world; American democracy and capitalism compared to other political and economic systems; economics of war and peace.

EXTENSION DIVISION

The Extension Division of the Institute offers both sequential programs and unit courses on a part-time basis to employed persons. Its purpose is to provide an opportunity for adults of the community to extend their education in specialized fields.

The sequential programs consist of accredited college-level curriculums in the fields of Chemical, Electrical, Mechanical, Medical and Business Technology. The Extension Diploma is awarded to those who successfully complete the required curriculum which consist of approximately thirty semester credit hours. It is expected that the average student can complete these curriculums in three or three and one-half years on the basis of attending classes two evenings a week during each of the two semesters per year. Admission requirements for students in the diploma program are the same as for the day program.

The Extension Division also offers shorter programs and unit courses in Automotive and Leather Technology, Traffic and Transportation and other areas where there is an expressed need for the course and where the Institute can furnish the necessary facilities. Admission requirements for these courses are dependent on each individual course as outlined in the Evening Division announcement.

Tuition is charged at the rate of $10 per credit hour for all courses. These programs are approved by the Veterans Administration. Applicants wishing to obtain veteran's educational benefits should consult their nearest veteran's agency.

For further information or announcement of courses contact the Director of Extension, Broome County Technical Institute.

QUESTIONS AND ANSWERS

What are the entrance requirements?

A candidate seeking admission to the Institute is expected to have completed a four-year high school course consisting of a minimum of 16 units which have adequately prepared him to pursue a college program.

An applicant must meet the minimum requirements of physical ability required by the occupational field in which he wishes to engage.

He must show evidence of good moral character.

He must be recommended by his high school principal or guidance counselor.

It is recommended that an applicant have the following high school preparation:

Technology Curriculums

Mathematics (including elementary algebra, plane geometry, intermediate algebra)	3 units
Science (chemistry for Chemical Technology, physics for Electrical Technology, physics and/or chemistry for Automotive Technology)	2 units

Office Assistants Curriculums

Mathematics (including elementary algebra)	2 units
Science (including chemistry or physics)	2 units

NOTE: For those who may be deficient in mathematics, a course in mathematics is offered each summer, prior to the opening of the Fall term. Those who need to enroll in this course must submit the completed Institute application form no later than June 15.

How long are the courses?

All programs are two years in length. The college year is divided into four terms of approximately thirteen weeks each. Those students enrolled in the technical curriculums spend a total of five terms "on campus" and two terms in industry on the cooperative phase of their education. Students in the Medical and Technical Office Assistant curriculums spend three terms "on campus" each year with the summer term in cooperative employment.

Classes are scheduled from 8:00 A. M. to 5:00 P. M. Monday through Friday.

What is the cost?

TUITION

For New York State residents (payable at the rate of $90.00 per term)	$270.00 per year
For out-of-State residents (payable at the rate of $180.00 per term)	$540.00 per year

FEES

Student activity	$20.00 per year*
Health	$18.00 per year
Lock deposit (First year only)	$2.00
Graduation	$10.00**

* The $10.00 deposit required with the application becomes advance payment on the activity fee if the applicant is accepted.

** This fee is paid at the start of the term preceding graduation. Any refund of fees is at the option of the Institute.

BOOKS AND SUPPLIES

Each student provides at his own expense the necessary books and instructional materials. These may be purchased at the Book Store maintained by the Faculty-Student Association for the convenience of the students. The cost varies, depending on the curriculum, from $50.00 to $75.00 per year.

BOARD AND ROOM

The cost of board and room for out-of-town students is dependent upon the demands of the student. The average cost varies from $12.00 to $20.00 a week.

Are there opportunities for financial aid?

Many young people are denied the advantages of higher education because of the cost. Broome County Technical Institute is vitally concerned that all high school graduates who can benefit by the technical institute type of education may have the chance to do so. Below are listed several opportunities for self-support without the necessity of time-consuming outside work.

COOPERATIVE WORK PROGRAM

In the work-study plan students are placed in jobs related to their major field of study for two separate employment periods. Students are paid the prevailing wage for the job they do. Cooperative students in the technology curriculums average $1,200 for the two periods.

The program offers other distinct advantages:

1. It is exploratory. The student has a chance to survey and evaluate a number of different jobs within his field. At the same time he can take stock of his own abilities and interests.
2. It is an opportunity to correlate classroom studies with actual work expreience.
3. It is a means of demonstrating the importance of human relations in the work situation.

Cooperative work students are expected to "earn their own way," to perform the duties required without special favor. At the end of each period employers submit a report covering the student's performance. These reports become a part of the student's permanent record.

SCHOLARSHIPS

Recipients of University Scholarships, which are provided by the New York State Legislature each year, may use these scholarships in defraying their expenses at the Institute.

Link Aviation, Inc. of Binghamton awards five scholarships of $200 each to students in Electrical Technology.

LOANS

Plans are being made for the establishment of a Student Loan Fund. Information and application forms may be obtained from the Director of Admissions.

Small loans are available to deserving students who are in temporary need of financial assistance.

What about living accommodations?

The Institute does not maintain dormitories. Local students of course live at home. Out-of-town students who have relatives or friends within commuting distance of the Institute will find it more economical to live with them if possible. Other students are required to live in rooms which have been inspected and approved, or at the Y. M. C. A. or the Y. W. C. A.

The Deans maintain lists of rooms and assist students in finding suitable living quarters.

WHAT ARE THE ACADEMIC STANDARDS?

Grading System

Grade	Points Per Credit Hour
A	4
B	3
C	2
D	1
P	0
F	0

A—Outstanding

Exceptional ability. Accomplishment and initiative merit special recognition.

B—Good

Above average in accomplishment and responsibility.

C—Satisfactory

Average in accomplishment and responsibility.

D—Fair

Below average in accomplishment and responsibility.

P—Poor

Accomplishment unsatisfactory for honor points but sufficient to form basis for future work.

F—Failing

Accomplishment insufficient to form basis for future work .

Scholastic standing

To remain in satisfactory standing, a student must earn a point average of 1.2 the first term, 1.4 the second term, 1.5 the third term, and 1.5 for each succeeding term until graduation.

In order for a student to remain in good standing he must also demonstrate a mature attitude of interest and cooperation.

Grades are issued at the end of each term. All students doing unsatisfactory work at midterm will be counseled.

Any student who does not maintain this minimum point average in any term is placed on probation for the following "in Institute" term.

Honors

At the end of each term students who have earned an average of 3.0 or above are placed on the Institute Honor Roll, while those who have earned 3.5 or better are placed on the President's list.

Dismissal

Students may be considered for dismissal for the following causes: more than one probationary period; failure to earn a point average of 0.8 the first term, 0.9 the second term and 1.0 for each succeeding term; irregular attendance, neglect of work or financial obligations, or failure to comply with Institute rules and official notices; conduct unbecoming a student.

Any action leading to the requested withdrawal of a student is taken up by the Executive Committee. A student may be readmitted by favorable action of the Committee. The Institute reserves the right to be the sole judge in all matters pertaining to dismissal.

Withdrawal

A student compelled to withdraw at any time must immediately notify the Admissions Office and complete the proper termination form. Failure to comply with this regulation will cause the individual to forfeit his right to honorable dismissal and to lose any refund of fees.

What are the requirements for graduation?

Satisfaction of the Institute requirements as a regular student.

Completion of all specified subjects and projects for the curriculum in which the student is enrolled.

An honor point total of 7.1 in the five-term curriculums (technical), or 8.6 in the six-term curriculums (office assistants).

Satisfactory financial standing at the Institute.

What degree is offered?

Students who complete the requirements for graduation in the full-time day curriculums are awarded the degree, Associate in Applied Science.

What about placement?

Each Department Head is in charge of cooperative and permanent placement for the students in his department. The demand for Institute graduates is consistently greater than the supply, and most seniors have several employment offers from which to choose.

After graduation—what?

Each graduate is entitled to two transcripts of his work completed at the Institute. One dollar is charged for each additional transcript.

Graduates are eligible for membership in the Broome Tech Alumni Association. Two annual events highlight the Association's Activities: Spring Day, featuring an Alumni-Varsity baseball game and a picnic, and early in December a dinner, election of officers, and an Alumni-Varsity basketball game.

Graduates who are working nearby are urged to take advanced courses offered in the Evening Extension Division.

What about veterans?

All Institute full-time curriculums are approved by the Veterans Administration. Those applicants wishing to obtain government educational benefits should consult their nearest veteran agency.

WHAT CO-CURRICULAR ACTIVITIES ARE OFFERED?

The Institute recognizes that students need the stimulus and diversion of co-curricular activities and that students themselves should originate and carry out a varied and flexible program under faculty supervision. Every student is urged to make his contribution to and derive his benefits from one or more of the following activities.

The Student Council

The governing body is the Student Council with representatives from the various curriculums, and officers elected from the student body at large. It has the responsibility of promoting and coordinating student affairs. It authorizes clubs and activities and allocates to the organizations funds paid by students as the Activity Fee. This fee entitles students to admission to varsity games, informal dances and parties, and a subscription to Tech Talk, student newspaper.

Athletic Committee

The Athletic Committee supervises the expenditure of money for athletic purposes and makes recommendations for improvements in the sports program.

Varsity Sports

The name "Hornets" has become well known in Eastern intercollegiate sports. Varsity sports are basketball, baseball, volleyball, golf and tennis. The basketball teams have been particularly successful in competition against two-year and four-year colleges and service teams. Varsity volleyballers are becoming increasingly recognized as a power in intercollegiate and tournament play.

Intramural Sports

Students of average athletic ability have an opportunity to participate in intramural sports. Teams representing the various curriculums make up the leagues in basketball, volleyball and bowling.

Cheerleaders

Positions on the varsity and junior varsity cheerleading squads are open to both men and women on a competitive basis.

Social Committee

The Social Committee has charge of planning dances, parties and picnics. Most of the affairs are informal and are held in the gymnasium.

Convocation Committee

A joint student-faculty committee has the responsibility of planning the convocation programs at which attendance is required.

Publications

Tech Talk is the student newspaper published once a month and devoted to the reporting of news and features of Institute life. The yearbook is known as the Citadel. Positions on both publications are open to students interested in writing, art and advertising.

Music

Three organizations attract students who are musically inclined. The Glee Club is composed of both men and women and appears at student and community affairs. The Dance Band, when talent is available, furnishes music for informal college dances. Mu Alpha Sigma is a society devoted to the development of music appreciation.

Camera Club

For those interested in photography the Camera Club provides the chance to get experience in picture taking, developing, printing and enlarging. A well-equipped darkroom is available for student use. Most of the photographic work on the newspaper and yearbook is done by members of the club under faculty supervision.

Varsity Club

Lettermen in the major sports are eligible for membership in the Varsity Club, whose purpose is to further interest in intercollegiate competition.

Awards

Outstanding participation in the above activities is recognized by a system of wards consisting of letters, emblems, pins, and certificates.

Newman Club

The Newman Club is an informal group organized to foster a better understanding of Catholic ideology. The program features religious lectures and discussions, and social events.

Technical Societies

Students in the technology curriculums have the privilege of becoming associated with professional men in their field by joining the student chapter of one of more of the technical societies:

Southern Tier Technical Society—student member
American Institute of Electrical Engineers—student member of local chapter
American Chemical Society—student associate of local chapter

Each student society has its own program. In addition, members may attend meetings of the senior chapter, hear lectures given by outstanding men in technical fields, and see films and demonstrations on new developments.

Student-Faculty Association

This is a non-profit organization, incorporated under the laws of New York State, operated by faculty officers with a student advisory board. The Association operates the bookstore, cafeteria, vending machines, pay telephone, and the faculty parking lot.

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What is the application procedure?

New students are admitted only in September of each year. However, applications will be accepted at any time during the year.

An application for admission must be made on official forms supplied by the Institute. Those forms may be obtained on request at the Admissions Office.

A deposit of $10 must accompany each application. This deposit is applied as an advance payment on the student activity fee if the applicant is accepted. It will be refunded if the applicant is not accepted. It will not be refunded if the applicant fails to report for registration after acceptance.

Upon receipt of the completed application form by the Admissions Office, a certificate of residence will be supplied, which should be signed by the proper official of the county of residence.

Each applicant will be interviewed by the members of the Committee on Admissions. An appointment will be made after the applicant's deposit, application and other required credentials have been received. Appointments for interviews will normally be made after January first of each year.

Transfer Students

Applications are accepted from students who have been enrolled in other accredited colleges if they submit satisfactory entrance requirements.

Transfer of credit for advanced standing is subject to the approval of the Department Head and the Director of Admissions.

Consideration will not be given to any subject for transfer credit which carries a grade of less than "C."

Late Registration

An applicant may not register more than seven days after the beginning of the Fall term except by special permission of the President of the Institute.

GRADUATES

Class of 1949

Richard D. Appley	Fish's Eddy
Charles E. Aswad	Binghamton
Andrew C. Barilla	Syracuse
John A. Basmajian	Binghamton
Edgar B. Bean	Homer
Jesse V. Beebe	Binghamton
Audrey R. Bellinger	Johnson City
Alex Belokur	Owego
John G. Bickos	Sidney
Katherine F. Bixby	Nichols
Richard B. Booth	Binghamton
Frank L. Brucknak	Candor
Ann C. Bucher	Johnson City
Donald A. Buffington	Vestal
David H. Burritt	Geneva
Norris F. Carlson	Binghamton
Emma F. Carrere	Sidney
Fred E. Cederborg	Endicott
William E. Chamberlin	Unadilla
Paul W. Chebiniak	Binghamton
Francis J. Conrad	Binghamton
William G. Conrad	Whitney Point
Thomas S. Cooper	Johnson City
Wilbur T. Crandall	Sidney
Bernard E. Criscenzo	Hawthorne, N. J.
Fred J. R. Croft	Glen Aubrey
Joseph C. Curatolo	Endicott
Carlton C. Dalrymple	Windsor
L. Philip Dann	Addison
Albert J. DeRitis	Binghamton
William Dervay	Binghamton
Frances E. DeWolf	Syracuse
Earl E. Doney	Waverly
Robert S. Donnelly	Interlaken
Ellen K. Donovan	Binghamton
Barbara M. Dougherty	Binghamton
Lee C. Durland	Cadosia
Maryanne Dwyer	Callicoon
J. Elaine Elwood	Rockdale
Phyllis J. Emerson	Waverly
Rhoda T. Fish	Binghamton
John Fletcher	Binghamton
Nicholas H. Gabriel	Cortland
Joseph J. Gierlach	Johnson City
Shirley J. Goltry	Apalachin
Dolores M. Gorman	Chenango Forks
John M. Hamarich	Endicott
Margaret C. Hamilton	Binghamton
Donald K. Heil	Middletown
Charles W. Hendrickson	Binghamton
Harry T. Hodges	Auburn
Bruce W. Hopkins	Moravia
Harriett L. Houghtaling	Binghamton
Nicholas Hriciga	Binghamton
Harold R. Hutchinson	Newark Valley
Eugene Johnson	Johnson City
Eugene J. Kenney	Vestal
Anne M. King	Johnson City
Eugene P. Koloski	Binghamton
Joseph J. Kopal	Binghamton
Nick Korba	Johnson City
Richard P. Krager	Glen Castle
Michael J. Krupa	Binghamton
Alfred R. Kulikowski	Johnson City
Vincent D. Lawrence	Kingston
Virginia A. LeClaire	Penn Yan
John W. Lloyd	Endwell
Jack J. Longo	Endicott
Richard K. Lovelee	Dunkirk
Thomas D. MacBlane	Elmira
Joseph M. Machata	Binghamton
John E. Martyak	Binghamton
Gladys L. McDonald	Johnson City
Dean W. McGowan	Oneonta
Richard C. Mehlenbacher	Cohocton
John J. Merges	Binghamton
Patricia L. Michael	Binghamton
Anthony Michalak	Johnson City
George W. Molessa	Binghamton
John A. Monson	Edmeston
John L. Nichols	Binghamton
Phyllis A. Nichols	Vestal
John P. O'Brien	Fulton
Shirley M. Olmsted	Waverly
Ronald E. Overfield	Johnson City
Ross R. Feduto	Binghamton
Peter Petrigala	Binghamton
Joseph G. Pokorak, Jr.	Johnson City
Steven Pyluck	Endicott
Alberta M. Rayner	Waverly
Elwyn J. Richards	Johnson City
Edward S. Richion	Endicott
John F. Romanelli	Utica
Howard S. Rothe	Binghamton
Jean E. Rougeux	Binghamton
Prudence A. Ryan	Homer
Andrew L. Santalucia	Kirkwood
Salvatore F. Saraceno	Endicott
Charles Savas	Endicott
Samuel A. Schroeder	Binghamton
Mercena E. Schuyler	Binghamton
Albert Siedlarczyk	Johnson City
Howard A. Simmons	Endicott
Andrew Smetana	Johnson City
Silas J. Smith	Fulton
Frank J. Snupik	Binghamton
Ralph E. Stamps	Vestal
Victor O. Stead	Bainbridge

Richard A. Steigerwald	Johnson City
Robert L. Steigerwald	Johnson City
John Stimik	Binghamton
George E. Strockbine	Binghamton
Joseph J. Struck	Johnson City
Herbert M. Swan	Vestal
Bernard F. Szymaniak	Binghamton
John J. Talkiewicz	Johnson City
Rush P. Taylor	Binghamton
Gorton E. Tinklepaugh	Harpursville
Albert B. Tulla	Interlaken
Ralph M. Tyler	Binghamton
Wesley B. Tyler	Westford
James E. Updyke	Binghamton
Peter J. Vallese	Endicott
John R. Van Gorder	Newark Valley
Robert M. Vetter	Binghamton
Allison H. Vincent	Endicott
Joseph D. Vitale	Endicott
William Vovchik	Endicott
Warren T. Wagner	Binghamton
Bruce E. Watson	Binghamton
Gerald B. Webster	Binghamton
Norman D. Wells	Elmira
Ruth M. Weymouth	Gloversville
Rhoda M. White	Cornwall-on-Hudson
Elizabeth G. Whittemore	Vestal
Dale W. Yetter	Newark Valley
Lawrence R. Yetter	Newark Valley
Michael Yonko	Johnson City
Walter Zablotsky	Vestal
Leon M. Ziac	Binghamton

GRADUATES

Class of 1950

Gerald L. Arffa	Syracuse
Richard P. Armstrong	Binghamton
Richard A. Auyer	Binghamton
Raymond E. Balch	Johnson City
Joan E. Beecher	Killawog
Richard C. Berry	Marcellus
Elinor M. Biedekapp	Walton
Franc J. Bixby	Nichols
Marilyn L. Bostwick	Binghamton
Laura G. Boyd	Franklin Depot
Robert W. Brougham	Elmira
Gordon R. Brown	Norwich
Harold E. Brown	Norwich
Alan B. Browne	Binghamton
Milton Bublinec	Johnson City
Cathaleen M. Burns	Binghamton
Emanuel J. Callea	Binghamton
Elwood C. Campbell	Vestal
George L. Capwell	Binghamton
B. Dalila Chapman	Binghamton
Harry Charnetsky, Jr.	Binghamton
Louis S. Chickos	Buffalo
Elmer J. Ciampichini	Binghamton
Robert W. Clair	Pine Valley
Leonard C. Clarke	Binghamton
Stanley D. Clinton	Greene
Frank R. Colgan	Binghamton
Gene C. Dimmick	Waverly
Betty L. Downey	Homer
Elmer P. Dozier	Maybrook
Margery E. Dozier	Maybrook
Mabel D. Dubben	Cooperstown
Louis W. Ducote	Binghamton
Rita F. Duffy	Binghamton
Beverly Dunham	Willet
Stanley R. English	Homer
Joseph Fleming	Marathon
Rose M. Fuimarello	Poughkeepsie
Barbara J. Gilbert	Binghamton
Louise E. Grabowski	Binghamton
Pauline C. Grace	Johnson City
James R. Greatsinger	Pine City
Daniel Green	Johnson City
Charles C. Gregory	Johnson City
Clifford W. Hager	Elmira
M. Marjorie Harrison	Binghamton
Walter C. Hein	Conklin
Iris Hellewell	Ithaca
Walter F. Herzog	Sidney
Robert A. Hock	Johnson City
David E. Hoefer	Ithaca
George J. Hoeflein, Jr.	Johnson City
Julian R. Johnson	Binghamton
Clifford J. King	Burdett
Mary Jane C. Kirkland	Johnson City
Michael Kolba	Binghamton
Peter Kostyun	Endicott
George S. Kotrch	Endicott
Eugene F. Kovarick	Endicott
Frank J. Kovarick	Endicott
Neil N. Krewson	Johnson City
Kenneth V. F. LaBarre	Johnson City
Raymond S. Landon	Johnson City
Leonard A. Laskowski	Johnson City
Richard G. Latham	Binghamton
Jack J. LeBlanc	Binghamton
Arthur M. Lipkin	Albany
Chester F. Lobacz	Johnson City
Burton A. Lozier	Vestal
Dorothy R. Lutke	Johnson City
Anne C. Macinski	Johnson City
Jeanne M. Marino	Hancock
Josephine Matolka	Endicott
Claudine M. Matych	Binghamton

Patricia D. Mayhood _____ Pine City
John E. McTamney, Jr. _____ Owego
Harry D. Mersereau, Jr. _____ Vestal
John E. Mills __________ Binghamton
Robert C. Mitchell ____ Johnson City
George G. Morgan ________ Owego
Edward F. Moryl _____ Johnson City
Donald H. Paul ___________ Elmira
Michael L. Pestillo _________ Solvay
Sterling W. Pierson ____ Binghamton
Stanley J. Polich _______ Worcester
William H. Pratt ______ Binghamton
Rodney C. Pratt _______ Binghamton
Phillip A. Ragard ______ Binghamton
Donald M. Reeve ___________ Sayre
Robert L. Reid ___________ Elmira
Martha J. Russell _____ Colliersville
George R. Sackett, Jr. __ East Jewett
Sally J. Seltzer ________ Binghamton
Charles O. Shaw _________ Oneonta
Thomas J. Shipko ______ Binghamton
Louise M. Slodki ______ Binghamton
Duane N. Smith _______ Binghamton
Shirley L. Snow ___ Memphis, N. Y.
Robert L. Spangenberg ___ Endicott
Wesley A. Stockett ____ Binghamton
Rudolph O. Strunk _____ Binghamton
Darwin O. Taft _______ Binghamton
Douglas E. Tiffany ____ Binghamton
Richard P. Vanek ______ Binghamton
Beverly J. Van Woert ____ Oneonta
Anthony F. Villante _______ Greene
Robert L. Wall ________ Binghamton
Dolores A. Whitaker ______ Endicott
Roy M. Whiting _________ Endicott
Kenneth L. Wilbur __________ Lisle
Ralph G. Wilcox ____ Whitney Point
Thomas W. Williams _____ Pine City
William E. Winters ___ Johnson City
Charles D. Wolfe _________ Owego
Warren J. Wooden ____ Binghamton
Bruno A. Zaccaria ________ Oneonta

GRADUATES

Class of 1951

Charles E. Angel ____ Whitney Point
Louise E. Aton ________ Binghamton
Clifford W. Bailey _____ Binghamton
Arthur W. Banfield ___ Johnson City
John E. Battaglini ________ Endicott
Marcell A. Boulous ____ Binghamton
Harold K. Boyce _______ Port Jervis
Jacqueline J. Brady ____ Binghamton
Meredith Brill, Jr. __________ Ithaca
William L. Burgin ___ Margaretville
Donald Burlew _______ Binghamton
Eugene F. Burns _________ Endicott
Thomas J. Carlton _______ Endicott
Donald R. Carpenter ______ Syracuse
John M. Cherevko _______ Endicott
Richard W. Christman, Jr. ____ Afton
Benjamin M. Clarke, Jr. Binghamton
J. Raymond Close __________ Elmira
Newton H. Combs ___ Fleischmanns
Dane J. Cox ______________ Greene
W. Gordon Crabb ____ Johnson City
William A. Crowley Elmira Heights
William J. Danek _____ Johnson City
Albert H. Davies ___________ Vestal
Edward C. Davis ________ Endicott
Joan C. Day __________ Weedsport
Donald L. Decker _____ Binghamton
Sherman L. Decker, Jr. ____ Oneonta
Frank E. Delanoy ____ Johnson City
Herbert L. Dellapenta Johnson City
Paulyne M. Denson ________ Elmira
J. Charles DeVente ___ Johnson City
Ignatius A. DiBello _______ Oneonta
Howard J. Dingman ________ Sidney
David J. Dopp _______ Johnson City
Jane J. Duffy _________ Binghamton
Gertrude C. Dunn ____ Montgomery
Emerson E. Ebert _______ Callicoon
W. David Edwards _________ Delhi
Rose H. Fanning _________ Cortland
Florence M. Fennell ______ Dundee
Maxim W. Fenson ___ Johnson City
Charles J. Flynn ______ Binghamton
Durwood P. Frazier ______ Endicott
Boyd A. Frost ________ Johnson City
Myra J. Gage ________ Johnson City
George W. Gehen ____ Johnson City
Leonard V. Glosenger ___ Honesdale
Pierre J. Greene, Jr. __ Johnson City
Shirley L. Groce __________ Addison
Charles C. Hamilton ____ Port Jervis
Jean L. Hastings ______ Binghamton
Richard J. Hill ________ Binghamton
Agnes E. Hogan ______ Binghamton
Clarence H. Holdren _______ Vestal
Frank G. Hudda ______ Binghamton
Mary Ann C. Hudy ____ Binghamton
Donald K. Hurst ________ Freeville
Richard L. Jones ___________ Ithaca
Joseph R. Kabanek ____ Binghamton
Bernard V. Kamp ______ Binghamton
Charles R. Kenyon ____ Corbettsville
Millard S. Kidder _____ Binghamton
Robert D. King _______ Johnson City
Geraldine B. Kinney ____ Port Crane
Paul K. Kintner, Jr. ________ Vestal
Steven W. Kondratick _____ Auburn

Paul K. Krch	Binghamton
Rose Kulik	Binghamton
Anna M. Kurzweil	Callicoon
Michael A. LaCava	Norwich
Robert B. Lantz	Elmira
Alan G. Libglid	Rochester
Lowell H. Linderman	Johnson City
Ethel A. Livingston	Mechanicville
Mary Jane A. Lounsbery	Binghamton
Richard M. Lowe	Trumansburg
Donald E. Lozier	Vestal
John C. Lyles	Binghamton
Emily F. McCumber	Margaretville
Robert A. Meeker	Johnson City
Edward J. Menard	Johnson City
Helen Mieczowski	Johnson City
Jannette A. Miles	Binghamton
Robert F. Miller	West Albany
Shirley A. Miner	Weedsport
Douglas J. Monsour	Syracuse
Stanley A. Mosier	Binghamton
Helen L. Myers	Bainbridge
Rodger L. Myers	Binghamton
Toy D. North	Mileses
Robert G. O'Connor	Oneonta
Richard L. Parker	Marathon
Allyn B. Pearsall	Interlaken
Donald C. Peters	Savona
Joseph J. Petras, Jr.	Vestal
Victor M. Petrillo	Johnson City
Charles F. Fierce	Ithaca
Kerwin C. Playfoot	Horseheads
James Postlethwait	Fayetteville
R. Kay Proper	Downsville
Robert T. Pulse	Endicott
Patricia J. Richards	Conklin
Robert C. Robinson	Afton
Russell K. Rose	Johnson City
Robert E. Ross	Sidney
Nicholas A. Rossello	Endicott
Theodore L. Rounds	Vestal
Earl J. Rufibach	Johnson City
Margot A. Rupp	Johnson City
Harold F. Sadler, Jr.	Johnson City
George C. Schanz	Binghamton
John L. Sejersen	Bainbridge
Joyce A. Sheehan	Binghamton
William A. Shramek	Binghamton
James R. Simmons	Salamanca
Joan Smith	Binghamton
Bernard F. Smithka	Binghamton
Janet A. Spencer	Oneonta
Felix A. Stacconi	Endicott
Robert H. Strack	McGraw
Donald H. Stuart	Johnson City
Russell L. Swartz	Kirkwood
Ellen M. Thompson	Oneonta
Edward J. Tucker	Oxford
Harry F. Wagner	Binghamton
Helen A. Walrath	Ithaca
Phyllis Weeks	Afton
Alan B. White	Owego
Donald L. Wood	Freeville
James W. Wood	Nineveh
Daniel M. Yasich	Johnson City

GRADUATES

Class of 1952

Christine V. Adriance	Addison
Roger M. Alderman	Painted Fost
Royce B. Allen	Binghamton
Donald V. Andrus	Binghamton
R. Danton Avery	Johnson City
William Babcock	Johnson City
Mary L. Barney	Milford
John D. Bauer	Kenmore
Donald Baycura	Binghamton
Virginia G. Becker	Hornell
Ruth E. Best	Tioga Center
Edwin S. Black	Binghamton
Albert N. Blazicek	Johnson City
Charles T. Borsavage	Binghamton
Shirley E. Bowen	Roseboom
William A. Bradford	Ithaca
James H. Bramley	Union Grove
Joel W. Bravo	Binghamton
Lowell H. Brigham	Johnson City
Dennis A. Brown	Binghamton
Floyd C. Brown	Whitney Point
Kennard W. Brown, Jr.	Upper Lisle
Dominick J. Buongiorno	Albany
George R. Burkman	Binghamton
Dean A. Burton	Whitney Point
Joseph J. Callea	Auburn
Nancy J. Camin	Owego
Louis J. Cane	Endicott
A. Dennis Champoux	Binghamton
Betty A. Cheer	Endicott
Robert J. Clark	Vestal
Helen E. Coburn	Perry
James S. Collins	Binghamton
James J. Corcoran	Binghamton
Donald S. Covert	Endicott
Bruce T. Cunningham	Canastota
Sylvia A. DeCrescente	McVille
Willis H. Deiss	Castle Creek
John A. Delaney	Olean
Raymond L. Denney	Binghamton
Joseph F. Dodd	Oceanside
Louise J. Doig	Downsville
Duane M. Drum	Vestal
Russell E. Dyer	Binghamton
Robert H. Ewart	Kenmore
DeVer C. Finch	Greene

Walter R. Fowler	Carbondale
Gerald L. Fuller	Vestal
Edda N. Gallucci	Cortland
Ralph A. Gardner	Newark Valley
Robert L. Garrison	Bainbridge
Lucile M. Gehrke	Sidney Center
Jacob Goldstein	Binghamton
Haig Gopoian	Binghamton
Victor E. Hake	Cochecton
Florence L. Hall	Penn Yan
Charles J. Haltiner	Penn Yan
Jack H. Hanney	Port Crane
Donna J. Harrison	Binghamton
Walter J. Hassett	Binghamton
Marjorie L. Hayward	Endicott
William J. Heis	Johnson City
Edward Hirko	Binghamton
Darwin H. Holben	Allentown
Gerald E. Jenkins	Johnson City
Betty L. Johnston	Owego
Barbara A. Jones	Whitesboro
Robert E. Jones	Binghamton
William M. Kerr	Binghamton
Elizabeth L. Kilmer	Binghamton
Laura J. King	Binghamton
Francis T. Klindt	Morris
Mirone R. Klysh	Johnson City
Gordon A. Knapp	Afton
Philip Knox	Binghamton
Ernest P. Kollar	Endicott
John R. Koltz	Binghamton
Thomas R. Lannon	Binghamton
Joseph Lauricella	Endicott
Mary Belle LeRoy	Greene
Anthony Lupo	Endicott
Paul J. Mahoney	Kirkwood
Joseph E. Martone	Binghamton
Robert E. Mee	Binghamton
Joseph A. Menzel	Deposit
Frank S. Mistretta	Endicott
Carolyn F. Motyka	Buffalo
George F. Mulkins	Oneonta
Joanne E. Mursch	Marcy
Mary M. Myette	Johnson City
Stephen Nagle	Endicott
Joseph C. Nelson	Chenango Forks
R. Page Norton	Windsor
Otis L. O'Brien	South New Berlin
Catherine E. O'Hern	Binghamton
James S. Ondrako	Binghamton
John A. Pavlik	Binghamton
Donald L. Peabody	Endicott
Clinton J. Peake	Long Eddy
Donald L. Pease	Cobleskill
Carl A. Piperato	Wallkill
Michael L. Popp	Binghamton
Reginald E. Porter	New Berlin
Marion E. Poyer	Ithaca
Joseph P. Promiscuo	Albany
Carl W. Roberts	Binghamton
Joyce M. Roseboom	Milford
Jean M. Ross	Schenevus
Kenneth C. Ross	Binghamton
Gerald E. Rothwell	Elmira
Andrew R. Salvemini	Binghamton
Ann N. Sawyer	Sherburne
Marjorie Schmidt	Upper Lisle
Harry F. Schreck	Troy
Beverly A. Shiner	Deposit
Rose E. Simmons	Lockwood
Burt E. Slater	Oxford
Richard M. Slater	Claryville
Helen M. Smith	Binghamton
Helen A. Squire	Sauquoit
Ray W. Stanton	Vestal
Lawrence W. Stiles	Bainbridge
Harry E. Taylor	Binghamton
Mary M. Teed	Morris
Frances C. Teemsma	Johnson City
John W. Thiesen	Kenmore
Glenn O. Tiffany	Oneonta
Elsie M. Turner	Davenport
H. Warren VanKuren	Castle Creek
Lynn D. Vermilyea	Bedell
R. Duane Vosburg	Binghamton
Robert L. Walden	Oxford
Walter C. Warren	Albany
Robert L. Way	Johnson City
Robert I. Weintraub	Binghamton
James L. Wheeler	Elmira
Dolores B. Wolfer	Binghamton
Theodore R. Woolsey	Harriman

GRADUATES

Class of 1953

James Acenowr	New Berlin
Patricia Baird	Newark Valley
Nicholas Banko	Johnson City
Earl Barnes	Binghamton
William Barno	Endicott
Leland Bell	Johnson City
Joseph Benza	Binghamton
Ronald Borys	Utica
Barbara Braymer	Delhi
Francis Bucek	Johnson City
Jerome Bullock	Loch Sheldrake
Bette Jo Bundy	Conklin
Kenneth Burbank	Endicott
Joseph Caezza	Norwich
Mario Cianciosi	Endicott
Robert Clark	Vestal
Frank Conroy	Port Jervis
Richard Conway	Harrisburg, Pa.
Patricia Cooney	Binghamton
Gordon Cornell	Penn Yan

Patricia Crane ------------- Ithaca
Joseph Daszewski ----- Johnson City
Jack DeSoto -------- Watkins Glen
Blaine Ellis --------------- Vestal
William Elsbree ----------- Oxford
Steve Falvo ---------- Schenectady
Robert Fitch ------------ Endicott
Neva Gardner ------ West Oneonta
Ronald Gauthier ---------- Auburn
Edith Gooden ---------- Marcellus
Andrew Guinane ------ Binghamton
Paul Guley ----------- Binghamton
Peter Hatala --------- Johnson City
Robert Hayes ----------- Windsor
Richard Henninger
State College, Pa.
Elwood Hesse ----------- Windsor
Richard Hillis --------- Binghamton
Lewis Hoffer -------- Johnson City
Martha Humphrey ------ Port Crane
John Husnay --------- Binghamton
Anne Ingalls ------------ Unadilla
Robert Ingalls ----------- Oneonta
N. Douglas Johnson --- Binghamton
Elizabeth Kelm ---------- Endwell
Phyllis Knapp -------- Binghamton
Paul Kvaltine --------- Binghamton
Sue Ann Leonhart --------- Ithaca
Marjorie Lokken ----- Brooktondale
Jack Lowery --------- Johnson City
John McMillan ------ Johnson City
Randall Mack --------- Binghamton
Malcolm Meagley ---- Hallstead, Pa.
David Meeker -------- Binghamton
Donald Mills --------- Binghamton
Walter Mitchell ----- Niagara Falls
Richard O'Dea --------- Kirkwood
Orel D. Orvis ------------ Rockrift
Donald Peterson ----------- Elmira
John Pilkington ------ Johnson City
George Pollak -------- Binghamton
Allyn Puterbaugh --------- Endicott
Patricia Rood --------- Binghamton
Leland Sanford ------- Glen Aubrey
Donald Savage ---------- Oneonta
Jacqueline Schoonover ---- Corning
Warren Scofield ---------- Granton
John Seniw --------- Johnson City
Marjorie Sharpe ----------- Walton
Stanley Sherman --------- Norwich
Donald Simmonds --------- Greene
Leon Smith ------------- Endicott
Mary Sobiech -------- Johnson City
Peter Sopchak -------- Johnson City
Thomas Stamp ------------ Nunda
Valerie Stephens ------ Binghamton
Donald Struck -------- Binghamton
Esther Tinklepaugh ---- Binghamton
Gerald Tokos --------- Johnson City
Charles Vernon ---------- Waverly
Francis Voorhees -------- Wayland
Robert Vosburgh --------- Conklin
Craig Waldo -------------- Vestal
Garry Westher --------- Rochester
Edwin White -------- Canandaigua
Don Wiedeman ------ Johnson City
Keith Willis --------------- Vestal
Robert Wright -------- Binghamton
Doris Yetter --------- Johnson City
Ray Zimmerman ----- Johnson City
Neil Zylich ------------- Hillcrest

SENIORS

Class of 1954

Norman Adrian ------ Johnson City
Thomas Allen --------- Binghamton
Joseph Armstrong ------ Bainbridge
Richard Aylesworth ---------- Afton
Robert Baduka ----------- Endicott
Ford Baker ----------- Binghamton
John Baycura --------- Binghamton
William Bennett --------- Hancock
Robert Bergeron --------- Endicott
Marilynne Besemer --------- Ithaca
Robert Bird -------- Whitney Point
Everett Bosket ---------- Windsor
Richard Boyd ------------- Walton
Shirley Boyd ---------- Binghamton
Clarence Bross -------- Binghamton
Jack Brown -------- Whitney Point
Joanne Bunker ----------- Endicott
Hugh Carrington ------ Binghamton
Ronald Carroll ------- Binghamton
Joseph Casey ------------ Windsor
Richard Chattey ------ Johnson City
Roger Chauncey ------- Great Bend
Lee Christopher ------- Binghamton
Barbara Colsten ------- Binghamton
James Cooper ------------- Owego
Theron Cooper ------------ Oxford
John Corcoran -------- Binghamton
Charles Cressman --- Johnstown, Pa.
William Danton ---------- Endicott
William Dekar ------- Johnson City
Francis DiLascia ------ Binghamton
Michael Donahue ------ Binghamton
John Driscoll --------- Binghamton
Donald Dunbar ------- Binghamton
Larry Eaton ------- Whitney Point
Walter Egner --------- Hortonville
William Eldred ---------- Oneonta
Johanna Emminger ---- Binghamton
Dale Englehart --- Susquehanna, Pa.
Edward Fabrizio --------- Endicott

Mario Fabrizio	Endicott
Joseph Fasano	Binghamton
Alexander Fedones	Endicott
Alice Finch	Round Lake
Lynn Finch	Franklin
John Fitch	Johnson City
Carl Flexer	Deposit
Leonard Forster	Binghamton
Sheila Gardner	Binghamton
Dorothy Garrison	Binghamton
Allen Gascon	Sidney
Richard Gaskill	Vestal
Barbara Gillette	Johnson City
Carl Goodwin	Millport
Elwood Graham	Vestal
Patricia Halm	Coopers Plains
Ronald Halstead	Elmira
Walter Hankins	Narrowsburg
Bruce Hesse	Windsor
Kenneth Hill	Pine City
Robert Hillis	Binghamton
Gordon Hitt	Binghamton
Gerald Hlopko	Johnson City
Patricia Hogan	Binghamton
Gary Homer	Dryden
Walter House	Endwell
Joan Hoyt	Otego
Anthony Hronec	Binghamton
Frederick Hutt	Hankins
Fred Jones	Johnson City
John Kaspryk	Johnson City
Michael Kazo	Binghamton
Elwyn Keesler	Kirkwood
Robert Kenderes	Johnson City
Anna Kintner	Vestal
Patricia Kit	Rock City Falls
Robert Klube	Penn Yan
Frank Korosec	Endwell
Cyrill Kotek	Johnson City
Evelyn Kumpon	Binghamton
James Landon	Johnson City
Howell Larnerd	Binghamton
Paul Lauricella	Endicott
Robert Leach	Upper Lisle
Richard Leo	Binghamton
Dorothy Letavish	Johnson City
Theresa Liska	Binghamton
James Luciani	Endicott
Samuel Lutchko	Binghamton
Betsy Macey	Binghamton
Donna McLain	Vestal
Mary McNulty	Greene
Sarah Mallula	Van Etten
Nancy Markham	Binghamton
Louis Michael	Endicott
Leon Osborne	Endicott
Donald Page	Binghamton
Gerald Phillips	Johnson City
Ernest Pratt	Johnson City
Paul Purple	Newark Valley
Robert Radick	Johnson City
Harold Reese	Utica
Barbara Robinson	Johnson City
Gerald Rollo	Johnson City
Barbara Rodman	Van Etten
Anthony Ruspantini	Binghamton
Ellen Ryan	Marathon
Milton Sabol	Johnson City
Constance Salvemini	Binghamton
Joyce Sanford	Chenango Forks
Harley Schroeder	Binghamton
Helen Schwille	Franklin
George Seislove	Binghamton
Robert Shannahan	Binghamton
Jo May Shott	Binghamton
John Simek	Binghamton
Robert Smith	Oxford
Stark Smith	Sidney
Dennis Somple	Binghamton
John Spak	Johnson City
Ernest Spencer	Binghamton
Charles Spicer	Newark Valley
John Sprague	Endicott
Jefferson Springston	Lisle
Eugene Stackowitz	Susquehanna
Donald Stanek	Binghamton
Allison Steele	Johnson City
Harold Streby	Binghamton
Patricia Strudevant	Johnson City
Alan Taylor	Franklin
Frank Tokos	Johnson City
Johann Tomancik	Johnson City
Ralph Tyler	Hancock
David Utter	Stanley
Margaret Van Dusen	Jefferson
William Walker	Newark Valley
Keith Walter	Johnson City
Cleda Warren	Binghamton
Bernard Watson	Endicott
William Wiley	Endicott
Alan Winchell	Windsor
Duane Winters	Binghamton
Donald Yankosky	Port Crane
Virginia Zedik	Johnson City

CALENDAR 1954 - 1955

FALL TERM

September 7, 1954	9:00 A. M.	Senior Registration and Start Cooperative Period
	1:00 P. M.	Opening Convocation
	2:00 P. M.	Freshman Registration
September 8, 1954	8:00 A. M.	Classes begin
November 24, 1954	12:00 Noon	Thanksgiving Recess Begins
November 29, 1954	8:00 A. M.	Thanksgiving Recess Ends
December 2, 1954	5:00 P. M.	Fall Term Ends
December 3, 1954		Cooperative Period Ends

WINTER TERM

December 6, 1954	8:00 A. M.	Registration and Start Cooperative Period
December 22, 1954	5:00 P. M.	Christmas Recess Begins
January 3, 1955	8:00 A. M.	Christmas Recess Ends
March 10, 1955	5:00 P. M.	Winter Term Ends
March 11, 1955		Cooperative Period Ends

SPRING TERM

March 14, 1955	8:00 A. M.	Registration and Start Cooperative Period
April 7, 1955	5:00 P. M.	Easter Recess Begins
April 12, 1955	8:00 A. M.	Easter Recess Ends
May 27, 1955	5:00 P. M.	Decoration Day Recess Begins
May 31, 1955	8:00 A. M.	Decoration Day Recess Ends
June 9, 1955	5:00 P. M.	Spring Term Ends
June 10, 1955		Cooperative Period Ends
June 11, 1955	2:00 P. M.	Graduation

SUMMER TERM

June 13, 1955	8:00 A. M.	Registration and Start Cooperative Period
July 1, 1955	5:00 P. M.	Independence Day Recess Begins
July 5, 1955	8:00 A. M.	Independence Day Recess Ends
September 1, 1955	5:00 P. M.	Summer Term Ends
September 2, 1955		Cooperative Period Ends

CALENDAR 1955 - 1956

FALL TERM

September 6, 1955	9:00 A. M.	Senior Registration and Start Cooperative Period
	1:00 P. M.	Opening Convocation
	2:00 P. M.	Freshman Registration
September 7, 1955	8:00 A. M.	Classes begin
November 23, 1955	12:00 Noon	Thanksgiving Recess Begins
November 28, 1955	8:00 A. M.	Thanksgiving Recess Ends
December 1, 1955	5:00 P. M.	Fall Term Ends
December 2, 1955		Cooperative Period Ends

WINTER TERM

December 5, 1955	8:00 A. M.	Registration and Start Cooperative Period
December 23, 1955	5:00 P. M.	Christmas Recess Begins
January 3, 1956	8:00 A. M.	Christmas Recess Ends
March 8, 1956	5:00 P. M.	Winter Term Ends
March 9, 1956		Cooperative Period Ends

SPRING TERM

March 12, 1956	8:00 A. M.	Registration and Start Cooperative Period
March 29, 1956	5:00 P. M.	Easter Recess Begins
April 3, 1956	8:00 A. M.	Easter Recess Ends
May 29, 1956	5:00 P. M.	Decoration Day Recess Begins
May 31, 1956	8:00 A. M.	Decoration Day Recess Ends
June 7, 1956	5:00 P. M.	Spring Term Ends
June 8, 1956		Cooperative Period Ends
June 9, 1956	2:00 P. M.	Graduation

SUMMER TERM

June 11, 1956	8:00 A. M.	Registration and Start Cooperative Period
July 3, 1956	5:00 P. M.	Independence Day Recess Begins
July 5, 1956	8:00 A. M.	Independence Day Recess Ends
August 30, 1956	5:00 P. M.	Summer Term Ends
August 31, 1956		Cooperative Period Ends
September 4, 1956	8:00 A. M.	Senior Registration
	1:00 P. M.	Freshman Registration

REQUEST FOR APPLICATION FOR ADMISSION

Mail to

Director of Admissions
Broome County Technical Institute
255 Washington Street
Binghamton, New York

NAME ____

ADDRESS ____________________________________

HIGH SCHOOL ______________________________

I am interested in the curriculum checked below:

Automotive Technology ____
Chemical Technology ____
Electrical Technology ____
Mechanical Technology ____
Medical Office Assistant ____
Technical Office Assistant ____

Please send the Extension Division catalog ____

STATE UNIVERSITY OF NEW YORK

LIBERAL ARTS COLLEGE

HARPUR COLLEGE AT ENDICOTT

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UPSTATE MEDICAL CENTER AT SYRACUSE
COLLEGE OF AGRICULTURE AT CORNELL
COLLEGE OF CERAMICS AT ALFRED
COLLEGE OF FORESTRY AT SYRACUSE
COLLEGE OF HOME ECONOMICS AT CORNELL
SCHOOL OF INDUSTRIAL AND LABOR RELATIONS AT CORNELL
MARITIME COLLEGE AT FORT SCHUYLER
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COLLEGE FOR TEACHERS AT ALBANY
TEACHERS COLLEGE AT BROCKPORT
COLLEGE FOR TEACHERS AT BUFFALO
TEACHERS COLLEGE AT CORTLAND
TEACHERS COLLEGE AT FREDONIA
TEACHERS COLLEGE AT GENESEO
TEACHERS COLLEGE AT NEW PALTZ
TEACHERS COLLEGE AT ONEONTA
TEACHERS COLLEGE AT OSWEGO
TEACHERS COLLEGE AT PLATTSBURG
TEACHERS COLLEGE AT POTSDAM

TWO-YEAR TECHNICAL INSTITUTES

AGRICULTURAL AND TECHNICAL INSTITUTE AT ALFRED
AGRICULTURAL AND TECHNICAL INSTITUTE AT CANTON
INSTITUTE OF AGRICULTURE AND HOME ECONOMICS AT COBLESKILL
AGRICULTURAL AND TECHNICAL INSTITUTE AT DELHI
AGRICURTURAL AND TECHNICAL INSTITUTE AT FARMINGDALE
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FASHION INSTITUTE OF TECHNOLOGY AT NEW YORK CITY
COMMUNITY COLLEGE AT JAMESTOWN
ORANGE COUNTY COMMUNITY COLLEGE AT MIDDLETOWN
BROOME COUNTY TECHNICAL INSTITUTE AT BINGHAMTON
ERIE COUNTY TECHNICAL INSTITUTE AT BUFFALO
NEW YORK CITY COMMUNITY COLLEGE OF APPLIED ARTS AND SCIENCES
MOHAWK VALLEY TECHNICAL INSTITUTE AT UTICA
TROY TECHNICAL INSTITUTE AT TROY
WESTCHESTER COMMUNITY COLLEGE AT WHITE PLAINS